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OM nucleic - nucleic search, using sw model

Run on: September 23, 2003, 21:08:50 ; Search time 73.1026 Seconds
(without alignments)
7976.007 Million cell updates/sec

Title: US-09-845-416-10_COPY_1800_3120

Perfect score: 1321
Sequence: 1 cgacttcagcagtcgaga.....ctaataaagccagagatc 1321

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA.*
1: /cgn2_6/ptodata/2/ina/5A_COMB.seq.*
2: /cgn2_6/ptodata/2/ina/5B_COMB.seq.*
3: /cgn2_6/ptodata/2/ina/6A_COMB.seq.*
4: /cgn2_6/ptodata/2/ina/6B_COMB.seq.*
5: /cgn2_6/ptodata/2/ina/PCUTS_COMB.seq.*
6: /cgn2_6/ptodata/2/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Match	Score	Length	DB ID	Description
1	1321	100.0	5952	4	US-09-687-875A-1
2	1310	99.2	13977	4	US-09-484-970B-60
c 3	1149.4	87.0	19307	3	US-08-836-022A-10
c 4	1149.4	87.0	19307	3	US-09-427-048A-10
5	564	42.7	6045	4	US-09-091-501B-7
6	564	42.7	10320	4	US-09-091-501B-9
c 7	50	3.8	7218	1	US-08-232-463-14
8	44.2	3.3	2574	4	US-09-668-313A-10
9	42.8	3.2	1690	4	US-09-620-312D-69
10	42.8	3.2	7812	3	US-09-368-590-1
11	38.6	2.9	1995	1	US-08-425-069-3
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13	38.4	2.9	7672	4	US-09-220-132-24
14	38.2	2.9	428	4	US-09-668-313A-3
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c 16	34.6	2.6	2277	1	US-08-676-967-5
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c 18	34.6	2.6	2277	2	US-09-098-487-5
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20	34.4	2.6	1047	4	US-09-671-950-3
21	34.4	2.6	1047	4	US-09-671-950-5
22	34.4	2.6	1047	4	US-09-671-950-7
23	34.4	2.6	1047	4	US-09-671-950-9
24	34.4	2.6	1047	4	US-09-671-950-11
25	34.4	2.6	1047	4	US-09-671-950-13
26	34.2	2.6	750	4	US-08-961-527-370
27	34.2	2.6	1620	4	US-08-858-207A-56

28	34.2	2.6	2800	2	US-08-874-138-1	Sequence 1, Appli
29	34.2	2.6	2800	2	US-08-874-138-5	Sequence 5, Appli
30	34.2	2.6	2800	3	US-08-879-941-1	Sequence 1, Appli
31	34.2	2.6	2800	3	US-08-879-941-3	Sequence 3, Appli
32	34.2	2.6	2800	4	US-09-747-116-1	Sequence 1, Appli
33	34.2	2.6	2800	4	US-09-747-116-3	Sequence 3, Appli
34	34.2	2.6	32768	4	US-08-961-527-71	Sequence 71, Appli
c 35	34	2.6	648	4	US-09-252-991A-10033	Sequence 10033, A
c 36	34	2.6	762	4	US-09-252-991A-9821	Sequence 9821, Ap
c 37	34	2.6	1644	3	US-09-252-991A-10161	Sequence 10161, A
c 38	34	2.6	2235	3	US-09-153-804-2	Sequence 2, Appli
39	33.8	2.6	1603	1	US-08-625-209A-1	Sequence 1, Appli
40	33.8	2.6	3489	2	US-08-728-323A-1	Sequence 1, Appli
41	33.8	2.6	3489	4	US-09-298-568-1	Sequence 1, Appli
42	33.8	2.6	3489	4	US-09-410-399-1	Sequence 1, Appli
c 43	33.8	2.6	32207	2	US-08-770-379-20	Sequence 20, Appli
c 44	33.8	2.6	32207	3	US-08-757-669A-20	Sequence 20, Appli
c 45	33.8	2.6	32207	4	US-09-230-371A-20	Sequence 20, Appli

ALIGNMENTS

RESULT 1
US-09-687-875A-1
; Sequence 1, Application US/09687875A
; Patent No. 6544786
; GENERAL INFORMATION:
; APPLICANT: Xiao, Xiao
; APPLICANT: Liu, Paul
; TITLE OF INVENTION: METHOD AND VECTOR FOR PRODUCING AND TRANSFERRING TRANS-SPLIC
; FILE REFERENCE: 00792
; CURRENT APPLICATION NUMBER: US/09/687,875A
; CURRENT FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: 60/158,868
; PRIOR FILING DATE: 1999-10-15
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 5952
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (2897)..(2898)
; OTHER INFORMATION: S4 junction site
; NAME/KEY: misc_feature
; LOCATION: (3198)..(3199)
; OTHER INFORMATION: S2 junction site
US-09-687-875A-1

Query Match 100.0%; Score 1321; DB 4; Length 5952;
Best Local Similarity 100.0%; Pred No. 0;
Matches 1321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CGACTTCCAGCAGTTCAGAAAGCAGACGATGATAGGCGCTTCAGAGGGAATTGAA 60
Db 3402 CGACTTCCAGCAGTTCAGAAAGCAGACGATGATAGGCGCTTCAGAGGGAATTGAA 3461
QY 61 AACTAAGAACCTGATATCATGAGTACTCTTGAGACTGTAGCATATTTCTGACAGACA 120
Db 3462 AACTAAGAACCTGATATCATGAGTACTCTTGAGACTGTAGCATATTTCTGACAGACA 3521
QY 121 GCCTTTGAGAGGACTAGAGAACTCTACAGGAGCCAGAGAGCTGCCCTCGAGGAGAG 180
Db 3522 GCCTTTGAGAGGACTAGAGAACTCTACAGGAGCCAGAGAGCTGCCCTCGAGGAGAG 3581
QY 181 AGCCAGAGATGCTACTCGGCTTCTACAAAGCAGGCTGAGGAGTCAATGACTGAGTGGGA 240
Db 3582 AGCCAGAGATGCTACTCGGCTTCTACAAAGCAGGCTGAGGAGTCAATGACTGAGTGGGA 3641
QY 241 AAATGTGAACCTGCACCTCCGCTGACTGGCAGAGAAAATAGATGAGACCTTGAAGACT 300

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QY	301	CCAGGAACCTTCAAGAGGCCACCGATGAGCTGGACTCAAGCTCGCCACAGCTTGAGGTGAT	360
Db	3702	CCAGGAACCTTCAAGAGGCCACCGATGAGCTGGACTCAAGCTGGCCACAGCTTGAGGTGAT	3761
QY	361	CAAGGGATCCTGGCAGCCCGTGGGCGCATCTCTCAATTGACTCTCTCCAAAGATCACTCGA	420
Db	3762	CAAGGGATCCTGGCAGCCCGTGGGCGCATCTCTCAATTGACTCTCTCCAAAGATCACTCGA	3821
QY	421	GAAGAGTCAGGCACCTTCGAGGAGAAATTCGGCCTCTGAAGAGAAACGTCAGGCCAGCTCAA	480
Db	3822	GAAGAGTCAGGCACCTTCGAGGAGAAATTCGGCCTCTGAAGAGAAACGTCAGGCCAGCTCAA	3881
QY	481	TGACCTTGCTGCCAGCTTACCACTTTGGGCAATTCAGCTCTCACCGCTATAACCTCAGCAC	540
Db	3882	TGACCTTGCTGCCAGCTTACCACTTTGGGCAATTCAGCTCTCACCGCTATAACCTCAGCAC	3941
QY	541	TCGGAGAGACCTTGAACACCAAGATGGAAGTTCTGCGAGTGGCCGTGAGAGACCGAGTCAG	600
Db	3942	TCGGAGAGACCTTGAACACCAAGATGGAAGTTCTGCGAGTGGCCGTGAGAGACCGAGTCAG	4001
QY	601	GCAGCTGCATGAAGCCCAACGAGGACCTTTGGTCCACCATCTCAGCATTTCTTCCAGCTC	660
Db	4002	GCAGCTGCATGAAGCCCAACGAGGACCTTTGGTCCACCATCTCAGCATTTCTTCCAGCTC	4061
QY	661	TGTCAGGGTGCCCTGGGAGAGAGCCATCTCGCAGAACAAAGTGCCTACTATATCAACCA	720
Db	4062	TGTCAGGGTGCCCTGGGAGAGAGCCATCTCGCAGAACAAAGTGCCTACTATATCAACCA	4121
QY	721	CGAGACTCAAAACAACCTTGCTGGGACCATCCCAAAATGACAGACTCTACCACTCTTTAGC	780
Db	4122	CGAGACTCAAAACAACCTTGCTGGGACCATCCCAAAATGACAGACTCTACCACTCTTTAGC	4181
QY	781	TGACCTGAATAATATGCAAGATCTCAGCTTATAGGACTGCCATGAACACTCCGAGAGACTGCA	840
Db	4182	TGACCTGAATAATATGCAAGATCTCAGCTTATAGGACTGCCATGAACACTCCGAGAGACTGCA	4241
QY	841	GAAGGCCCTTTGCTTTGGATCTCTTGAGCCTGTGACGTGCATGTGATGCTTGACCCAGCA	900
Db	4242	GAAGGCCCTTTGCTTTGGATCTCTTGAGCCTGTGACGTGCATGTGATGCTTGACCCAGCA	4301
QY	901	CAACCTCAAGCAAAAATGACAGCCCATGGATTCCTGCGAGATTATTAATGTTTGAACAC	960
Db	4302	CAACCTCAAGCAAAAATGACAGCCCATGGATTCCTGCGAGATTATTAATGTTTGAACAC	4361
QY	961	TATTTATGACCCGCTGGAGCAGAGACACACAATTTGGTCAAGTCCCTCTCTGGTGGA	1020
Db	4362	TATTTATGACCCGCTGGAGCAGAGACACACAATTTGGTCAAGTCCCTCTCTGGTGGA	4421
QY	1021	TATGTGTCGAACCTGGCTGCTGAAATGTTTATGATACGGGACGAACAGGAGGATCCGTGT	1080
Db	4422	TATGTGTCGAACCTGGCTGCTGAAATGTTTATGATACGGGACGAACAGGAGGATCCGTGT	4481
QY	1081	CCTGCTCTTTAAAACGTGCAATTCATTCCTGTGTTAAAGACATTTGGAAGACAACTACAG	1140
Db	4482	CCTGCTCTTTAAAACGTGCAATTCATTCCTGTGTTAAAGACATTTGGAAGACAACTACAG	4541
QY	1141	ATACCTTTTCAGCAAGTGGCAAGTCTCACAGGATTTGTGACCGCGCAGGCTGGGCT	1200
Db	4542	ATACCTTTTCAGCAAGTGGCAAGTCTCACAGGATTTGTGACCGCGCAGGCTGGGCT	4601
QY	1201	CCTTCTCGATGATTCTTATCCAAAATCCACAGAGTTGGGTGAAGTTGCTATCTTTGGGG	1260
Db	4602	CCTTCTCGATGATTCTTATCCAAAATCCACAGAGTTGGGTGAAGTTGCTATCTTTGGGG	4661
QY	1261	CAGTAACATTGAGCCCAAGTCTCCGAGCTGCTTCCAAATTTGCTAAATAAAGCCACAGAT	1320
Db	4662	CAGTAACATTGAGCCCAAGTCTCCGAGCTGCTTCCAAATTTGCTAAATAAAGCCACAGAT	4721
QY	1321	C 1321	
Db	4722	C 4722	

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RESULT 2
US-09-484-970B-60
; Sequence 60, Application US/09484970B
; Patent No. 6426186
; GENERAL INFORMATION:
; APPLICANT: Jones, Karen A.
; APPLICANT: Volkmut, Wayne
; APPLICANT: Walker, Michael G.
; TITLE OF INVENTION: BONE REMODELING GENES
; FILE REFERENCE: PB-0014 US
; CURRENT APPLICATION NUMBER: US/09/484, 970B
; CURRENT FILING DATE: 2000-01-18
; NUMBER OF SEQ ID NOS: 172
; SOFTWARE: PERL Program
; SEQ ID NO 60
; LENGTH: 13977
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; OTHER INFORMATION: Incyte ID No. 6426186 229357.11CB1
; NAME/KEY: unsure
; LOCATION: 11721-11761, 12294, 13969
; OTHER INFORMATION: a, t, c, g, or other
US-09-484-970B-60

Query Match          99.2%; Score 1310; DB 4; Length 13977;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 1321; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY      1 CGACTTTCCAGCAGTTCCAGAACGACGATGATACATAGGCGCTTCAAGAGGAAATTGAA 60
Db      8716 CGACTTTCCAGCAGTTCCAGAACGACGATGATACATAGGCGCTTCAAGAGGAAATTGAA 8775

QY      61 AACTAAGACCTGTAATCATGACTCTCTTGAGACTCTGACGATATTTCTGCACAGCA 120
Db      8776 AACTAAGAACCTGTAATCATGACTCTCTTGAGACTCTGACGATATTTCTGCACAGCA 8835

QY      121 GCCTTTGAGGACTAGAGAACTCTACCAGGAGCCAGAGAGCTGCCTCTTGAGGAG 180
Db      8836 GCCTTTGAGGACTAGAGAACTCTACCAGGAGCCAGAGAGCTGCCTCTTGAGGAG 8895

QY      181 AGCCCAAGATGCTACTCGGCTTCTACGAAGCAGGCTGAGGAGTCTAATCTGAGTGGA 240
Db      8896 AGCCCAAGATGCTACTCGGCTTCTACGAAGCAGGCTGAGGAGTCTAATCTGAGTGGA 8955

QY      241 AAAATTGAACCTGCATCCGCTGACTGGCAGAGAAAATAGATGAGACCTTGAAGACT 300
Db      8956 AAAATTGAACCTGCATCCGCTGACTGGCAGAGAAAATAGATGAGACCTTGAAGACT 9015

QY      301 CCAGGAACCTTCAAGAGGCCACGGATAGCTTGGACCTCAAGCTGCGCCACAGCTGAGGTGAT 360
Db      9016 CCAGGAACCTTCAAGAGGCCACGGATAGCTTGGACCTCAAGCTGCGCCACAGCTGAGGTGAT 9075

QY      361 CAAGGGATCTCTGCGACCCGCTGGCGATCTCTCATTTGACTCTCTCCAGAGTCACTCGA 420
Db      9076 CAAGGGATCTCTGCGACCCGCTGGCGATCTCTCATTTGACTCTCTCCAGAGTCACTCGA 9135

QY      421 GAAAGTCAAGGCACATTGAGGAGAAAATTGCGCTCTGAAAGAGAACTGAGCCACGCTCAA 480
Db      9136 GAAAGTCAAGGCACATTGAGGAGAAAATTGCGCTCTGAAAGAGAACTGAGCCACGCTCAA 9195

QY      481 TGACCTTGTCTGCGCAGCTTTACACTTTGGGCAATTGAGCTCTCAGCGTATTAACCTCAGCAC 540
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QY      541 TCTGGAGACCTTCAACACCAGATGGAGCTTCTGCGAGTGGCGTCTGAGGAGCCGAGTCTAG 600
Db      9256 TCTGGAGACCTTCAACACCAGATGGAGCTTCTGCGAGTGGCGTCTGAGGAGCCGAGTCTAG 9315

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Db 9316 CGAGCTGATGAGACCCAGGAGCTTTGGTCAGCATCTCAGCACTTCTTCCAGTC 9375
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Db 9436 CGAGACTCAAAACACTTGTGGGACCAATCCAAAATGACAGAGCTCTACCACTTTC 9495
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Db 9496 TGACCTGAATATGTCAGATCTCAGCTTATGAGCTGCCATGAACCTCCGAACTGCA 9555
QY 841 GAAGGCCCTTTGCTGGAATCTCTGAGCTGTGAGCTGTGATGCTTGGACCAAGCA 900
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QY 901 CAACCTCAAGCAAAATGACAGCCCATGATATCTCTGAGATATTAATTTGTTGACCAC 960
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Db 9676 TATTTATGACCGCTGGAGCAGACACACAAATTTGGTCAAGCTCCCTCTCTCGGTGA 9735
QY 1021 TATGTGCTGAATGCTGCTGAATTTATGATAGGAGCAAGAGAGAGATCCCGTGT 1080
Db 9736 TATGTGCTGAATGCTGCTGAATTTATGATAGGAGCAAGAGAGATCCCGTGT 9795
QY 1081 CCTGCTTTTAAACCTGGCAATCTTCCCTGTGAAGACATTTGGAGCAAGATACAG 1140
Db 9796 CCTGCTTTTAAACCTGGCAATCTTCCCTGTGAAGACATTTGGAGCAAGATACAG 9855
QY 1141 ATACTTTTCAAGCAAGTGGCAAGTCAACAGGATTTTGTACCAAGCCAGGCT-GGSCC 1199
Db 9856 ATACTTTTCAAGCAAGTGGCAAGTCAACAGGATTTTGTACCAAGCCAGGCT-GGSCC 9915
QY 1200 TCCTTCTGCATGATTTATCCAAATTCACAGACAGTTGGGTGAAGTTCATCTTTGGGG 1259
Db 9916 TCCTTCTGCATGATTTATCCAAATTCACAGACAGTTGGGTGAAGTTCATCTTTGGGG 9975
QY 1260 GCAGTACATGAGCCAACTGTCCGAGCTGCTTCCAAATTTGCTAATTAATAGCCAGAGA 1319
Db 9976 GCAGTACATGAGCCAACTGTCCGAGCTGCTTCCAAATTTGCTAATTAATAGCCAGAGA 10035
QY 1320 TC 1321
Db 10036 TC 10037
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RESULT 3

US-08-836-022A-10/c
; Sequence 10, Application US/08836022A
; Patent No. 6001557

GENERAL INFORMATION:

; APPLICANT: Trustees of the University of Pennsylvania
; APPLICANT: Wilson, James M.
; APPLICANT: Fisher, Krishna J.
; APPLICANT: Chen, Shu-Jen
; APPLICANT: Weitzman, Matthew
; TITLE OF INVENTION: Improved Adenovirus Virus and
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Howson and Howson
; STREET: Spring House Corporate Cntr, P O Box 457
; CITY: Spring House
; STATE: Pennsylvania
; COUNTRY: USA
; ZIP: 19477
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,022A
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/331,381
; FILING DATE: 28-OCT-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Bak, Mary E.
; REGISTRATION NUMBER: 31,215
; REFERENCE/DOCKET NUMBER: GNPVN-008PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-540-9200
; TELEFAX: 215-540-5818
; INFORMATION FOR SEQ ID NO: 10:
; LENGTH: 19307 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: unknown
; MOLECULE TYPE: cDNA
; US-08-836-022A-10

Query Match 87.0%; Score 1149.4; DB 3; Length 19307;
Best Local Similarity 92.0%; Pred. No. 0;
Matches 1213; Conservative 0; Mismatches 106; Indels 0; Gaps 0;

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QY 2 GACTTTCAGCAGTTGAGAGCAGAACGATGATAGAGGCGCTTCAAGAGGAATTGAAA 61
Db 5977 GATTTCCACAGCTTCAGAGCAGAAATGATATACATAGGCGCTTCAAGAGGAATTGAAA 5918
QY 62 ACTTAAAGAACTGTATCATGAGTACTCTGAGACTGTACGAATATTTCTGACAGAGCAG 121
Db 5917 ACTTAAAGAACTGTATCATGAGTACTCTGAGACTGTGAGATATTTCTGACAGAGCAG 5858
QY 122 COTTGGAAGACTAGAGAACTCTACCAGAGCCCGAGAGAGTGCCTCCTCGAGGAGAGA 181
Db 5857 COTTGGAAGACTAGAGAACTCTACCAGAGCCCGAGAGAGTGCCTCCTCGAGGAGAGA 5798
QY 182 GCCAGAAATGTCACCTGGCTTCTACGAAGCAGCCTCAGGAGGTCATATCTGAGTGGGAA 241
Db 5797 GCTCAGAAATGTCACCTGGCTTCTACGAAGCAGCCTCAGGAGGTCATATCTGAGTGGGAA 5738
QY 242 AAATTTGAACCTGTCACCTGGCTGAGTGGCAGAGAAAATAGATGAGACCTTCAAGAGACTC 301
Db 5737 AAATTTGAACCTGTCACCTGAGTGGCAGAGAAAATAGATGAGACTTCTTGAAGAGACTC 5678
QY 302 CAGGAACCTCAAGAGGCCAGGATGAGCTGAGCTCAAGCTCAAGTGGCGCAAGCTGAGTGATC 361
Db 5677 CAGGAACCTCAAGAGGCCAGGATGAGCTGAGCTCAAGTGGCGCAAGCTGAGTGATC 5618
QY 362 AAGGAGATCCTGGAGCCGCTGGGCGATCTCTCATTTGACTCTCTCCAAGATCACTCGAG 421
Db 5617 AAGGAGATCCTGGAGCCGCTGGGCGATCTCTCATTTGACTCTCTCCAAGATCACTCGAG 5558
QY 422 AAAGTCAAGGCACTTCGAGAGAGAAAATTTGGCTCTTGAAGAGAGAACTGAGCCACCTCAAT 481
Db 5557 AAAGTCAAGGCACTTCGAGAGAGAAAATTTGACCTCTTAAAGAGAAATGCTCAATCGTCAAT 5498
QY 482 GACCTTGTCTGCCAGCTTACCATTGGGCAATTCAGCTCTCAGCTCGATTAACCTCAGCACT 541
Db 5497 GACCTTGTCTGCCAGCTTACCATTGGGCAATTCAGCTCTCAGCTCTCAGCTTATAACCTCAGCACT 5438
QY 542 CTGGAGAGACTTGACACACAGATGGAGCTTCTGAGCTGGCGCTCCAGGACCCAGCTCAGG 601
Db 5437 TTGGAAGATCTGAATACAGATGGAGGCTTCTACAGCTGGCTGTGGAGGACCGCTGTCAGA 5378
QY 602 CAGCTGCTGATGAAGCCACAGGAGCTTTGGTCTCAGCATCTCAGCACTTCTTTCCACGCT 661
Db 5377 CAGCTGCTGATGAAGCCACAGGAGCTTTGGTCTCAGCATCTCAGCACTTCTTTCCACGCT 5318
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; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 1690
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(6879)
; NAME/KEY: unsure
; LOCATION: (100)...(102)
; NAME/KEY: unsure
; LOCATION: (1021)...(1023)
; NAME/KEY: unsure
; LOCATION: (2266)...(2268)
; US-09-368-590-1

Query Match      3.2%; Score 42.8; DB 4; Length 1690;
Best Local Similarity 47.9%; Pred. No. 0.0019;
Matches 156; Conservative 0; Mismatches 167; Indels 3; Gaps 1;

QY 301 CCAGGACCTCAAGAGCCACCGATGAGCTGAGCTCAAGCTCAAGCTGCGCCAGCTGAGGTGAT 360
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 55 CAAGGAGTTGCACCAAGCTGCGCAGCAGCTGAGCAGCAGCTGAGCAGCAGCTGAGCAGCAG 114
QY 361 CAAGGGA---TCCTGGCAGCCGCTGGCGCATCTCTCAATTGACTCTCTCCAGATCACT 417
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 115 GCTGCCACTGGCCATGCAGACAGGAGGAGCAGCAGCTGCTCAATTGACTCTCTCCAGATCACT 174
QY 418 CGAGAAAGTCAAGCAGCTTCAGAGGAGAAATTCGCCCTCTGAAAGAGACGTGAGCCAGCT 477
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 175 CAAAAGAACACCAAGCGCTGCGCGGAGATCCAGCGCATCGCGCGCGCTGAGGAGGT 234
QY 478 CAATGACCTTGCTGCCAGCTTACCACTTTGGCATTGAGCTCTCACCCTATACCTCAG 537
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 235 GTGGAGCGCGCGCGCGCTGCGCTGCGCAGCCGAGGAGCAGAGCAGTGGCGCG 294
QY 538 CACTCTGGAAGACCTGAACACCAAGATGGAAGCTTCTGAGCTGGCCGCTGAGGACCGAGT 597
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Db 295 GGGCTGGAGCAGCTGCAGAGCGCGCTGGCGGAGCTGCGGAGGCTGCGGAGGCTGCGGAGGCA 354
QY 598 CAGGACGTGCTATGAGCCACAGG 623
Db      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 355 GCAGGTGCTGGAGCGCGCTCCAGG 380

RESULT 10
US-09-368-590-1
; Sequence 1, Application US/09368590
; Patent No. 6187563
; GENERAL INFORMATION:
; APPLICANT: Solimena, Michele
; TITLE OF INVENTION: INTERACTING POLYPEPTIDES FOR
; TITLE OF INVENTION: AUTOANTIGENS OF AUTOIMMUNE DISEASES
; FILE REFERENCE: 101918-200 (OCR-941)
; CURRENT APPLICATION NUMBER: US/09/368,590
; CURRENT FILING DATE: 1999-08-04
; EARLIER APPLICATION NUMBER: 60/095,657
; EARLIER FILING DATE: 1998-08-07
; NUMBER OF SEQ ID NOS: 8
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; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 7812
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(6879)
; NAME/KEY: unsure
; LOCATION: (100)...(102)
; NAME/KEY: unsure
; LOCATION: (1021)...(1023)
; NAME/KEY: unsure
; LOCATION: (2266)...(2268)
; US-09-368-590-1

Query Match      3.2%; Score 42.8; DB 3; Length 7812;
Best Local Similarity 47.9%; Pred. No. 0.0049;
Matches 156; Conservative 0; Mismatches 167; Indels 3; Gaps 1;

QY 301 CCAGGACCTCAAGAGCCACCGATGAGCTGAGCTCAAGCTCAAGCTGCGCCAGCTGAGGTGAT 360
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QY 478 CAATGACCTTGCTGCCAGCTTACCACTTTGGCATTGAGCTCTCACCCTATACCTCAG 537
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RESULT 11
US-08-425-069-3
; Sequence 3, Application US/08425069
; Patent No. 5728810
; GENERAL INFORMATION:
; APPLICANT: Lewis, Randolph V.
; APPLICANT: Xu, Ming
; APPLICANT: Himman, Michael B.
; TITLE OF INVENTION: ISOLATED DNA CODING FOR SPIDER SILK
; TITLE OF INVENTION: PROTEIN, A REPLICABLE VECTOR AND A TRANSFORMED CELL
; TITLE OF INVENTION: CONTAINING THE ISOLATED DNA, AND PRODUCTS THEREOF
; NUMBER OF SEQUENCES: 69
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Birch, Stewart, Kolasch & Birch
; STREET: 301 No. 5728810th Washington Street
; CITY: Falls Church
; STATE: Virginia
; COUNTRY: U.S.A.
; ZIP: 22046
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/425,069
; FILING DATE: 19-APR-1995
; CLASSIFICATION: 435
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; ATTORNEY/AGENT INFORMATION:
; NAME: Murphy Jr., Gerald M
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 1447-106P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 205-8000
; TELEFAX: (703) 205-8050
; TELEX:
;
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1995 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; HYPOTHETICAL: NO
; IMMEDIATE SOURCE:
; CLONE: p6B
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 1..1785
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; US-08-425-069-3
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; Query Match 2.9%; Score 38.6; DB 1; Length 1995;
; Best Local Similarity 44.0%; Pred. No. 0.048;
; Matches 164; Conservative 0; Mismatches 209; Indels 0; Gaps 0;
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; QY 131 GCACTAGAGAACTCTACAGAGCCGACAGAGCTGCTCCTGAGGAGAGAGCCGAGAT 190
; DB 851 GACCTGGAGGATATGCGCTTGGACACAGAGCCCGGAGGATATGGACAGACAG 910
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; QY 191 GTCACTCGGCTTTACGAAAGCAGGCTGAGGAGGTCAATAGTGGGAAAATTTGAAC 250
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; Sequence 3, Application US/08317844B
; Patent No. 5989894
; GENERAL INFORMATION:
; APPLICANT: Lewis, Randolph V.
; APPLICANT: Xu, Ming
; APPLICANT: Hinman, Michael B.
; TITLE OF INVENTION: ISOLATED DNA CODING FOR SPIDER SILK
; TITLE OF INVENTION: PROTEIN, A REPLICABLE VECTOR AND A TRANSFORMED CELL
; TITLE OF INVENTION: CONTAINING THE ISOLATED DNA, AND PRODUCTS THEREOF
; NUMBER OF SEQUENCES: 62
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Birch, Stewart, Kolasch & Birch
; STREET: 301 No. 5989894th Washington Street
; CITY: Falls Church
; STATE: Virginia

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; COUNTRY: U.S.A.
; ZIP: 22046
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/317,844B
; FILING DATE: 04-OCT-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Murphy Jr., Gerald M
; REGISTRATION NUMBER: 28,977
; REFERENCE/DOCKET NUMBER: 1447-105P
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (703) 241-1300
; TELEFAX: (703) 241-2848
; TELEX: 248345
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; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1995 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
; HYPOTHETICAL: NO
; IMMEDIATE SOURCE:
; CLONE: p6B
; FEATURE:
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; LOCATION: 1..1785
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; US-08-317-844B-3
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; Query Match 2.9%; Score 38.6; DB 2; Length 1995;
; Best Local Similarity 44.0%; Pred. No. 0.048;
; Matches 164; Conservative 0; Mismatches 209; Indels 0; Gaps 0;
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; QY 11 GCAGTTCAGAGCAGACGATGTACATAGGCGCTTCAAGAGGGAATTTGAAACTAAAGAA 70
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; QY 131 GCACTAGAGAACTCTACAGAGCCGACAGAGCTGCTCCTGAGGAGAGAGCCGAGAT 190
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; QY 251 CTGCACTCCGCTGACTGGCAGAGAAAATAGATAGACCCCTTGAAGAGCTCCAGGAACTT 310
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; QY 311 CAAGAGGCCAGGATGAGTGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGGATCC 370
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; QY 371 TGGCAGCCCGTGG 383
; DB 1091 AAGGACCAAGGAGG 1103
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; RESULT 13
; US-09-220-132-24
; Sequence 24, Application US/09220132
; Patent No. 6506607
; GENERAL INFORMATION:
; APPLICANT: Shyjan, Andrew W.

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QY	734	ACTTGCTGGGACCATCCCAAATCACAGAGCTCTACCACTCTTTAGCTGTACCTCGAATAAT	793		

Search completed: September 24, 2003, 00:00:51
Job time : 75.2693 secs

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OM nucleic - nucleic search, using sw model

Run on: September 23, 2003, 21:08:50 : Search time 112.947 Seconds
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Perfect score: 2041
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Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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6: /cgn2_6/prodata/2/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	1071	52.5	5952	4	US-09-687-875A-1	Sequence 1, Appli
2	1043.4	51.1	13977	4	US-09-484-970B-60	Sequence 60, Appl
3	847.2	41.5	19307	3	US-08-836-022A-10	Sequence 10, Appl
4	847.2	41.5	19307	3	US-09-427-048A-10	Sequence 10, Appl
5	343	16.8	6045	4	US-09-091-501B-7	Sequence 7, Appli
6	343	16.8	10320	4	US-09-091-501B-9	Sequence 9, Appli
7	73.4	3.9	200	4	US-09-091-501B-5	Sequence 5, Appli
8	78.6	3.9	200	4	US-09-091-501B-4	Sequence 4, Appli
9	78.6	3.9	200	4	US-09-091-501B-6	Sequence 6, Appli
10	78.6	3.8	7218	1	US-08-232-453-14	Sequence 14, Appl
11	63.6	3.1	238	4	US-09-687-875A-13	Sequence 13, Appli
12	44	2.2	1230025	4	US-09-198-452A-1	Sequence 1, Appli
13	43.4	2.1	1179	4	US-09-107-532A-1186	Sequence 1186, Ap
14	40.4	2.0	2223	1	US-08-257-073-4	Sequence 4, Appli
15	39.2	1.9	16995	4	US-08-961-527-82	Sequence 82, Appl
16	38.6	1.9	1751	4	US-09-620-312D-847	Sequence 847, App
17	38.6	1.9	1995	1	US-08-425-069-3	Sequence 3, Appli
18	38.6	1.9	1995	2	US-08-317-844B-3	Sequence 3, Appli
19	38.2	1.9	1131	6	5180810-3	Patent No. 5180810
20	38.2	1.9	1784	6	5180810-2	Patent No. 5180810
21	38.2	1.9	1848	4	US-09-134-001C-447	Sequence 447, App
22	38.2	1.9	4929	4	US-09-620-312D-674	Sequence 674, App
23	38	1.9	1394	4	US-09-247-155-76	Sequence 76, Appl
24	37.4	1.8	2082	3	US-08-985-335-4	Sequence 4, Appli
25	37.4	1.8	2082	3	US-09-410-372-4	Sequence 4, Appli
26	37.2	1.8	2915	4	US-09-336-115C-5	Sequence 5, Appli
27	37.2	1.8	3902	4	US-08-961-527-212	Sequence 212, App

28	36.8	1.8	1886	6	5210183-1	Patent No. 5210183
29	36.6	1.8	1845	4	US-08-887-534A-22	Sequence 22, Appl
30	36.6	1.8	1845	4	US-09-527-431-22	Sequence 22, Appl
31	36.2	1.8	289	3	US-09-007-005-17	Sequence 17, Appl
32	36.2	1.8	289	3	US-09-244-796-17	Sequence 17, Appl
33	36.2	1.8	2447	2	US-09-014-969-14	Sequence 14, Appl
34	36.2	1.8	168575	4	US-09-426-290-1	Sequence 1, Appli
35	36	1.8	608	3	US-09-385-982-236	Sequence 236, App
36	36	1.8	2873	4	US-08-630-915A-193	Sequence 193, App
37	35.8	1.8	790	3	US-09-461-474-13	Sequence 13, Appl
38	35.6	1.7	4868	1	US-08-139-937-12	Sequence 12, Appl
39	35.6	1.7	4868	5	PCT-US93-11310-12	Sequence 12, Appl
40	35.6	1.7	7672	4	US-09-220-132-24	Sequence 24, Appl
41	35.6	1.7	8257	4	US-09-595-684B-30	Sequence 30, Appl
42	35.6	1.7	8789	1	US-08-328-254-5	Sequence 5, Appli
43	35.6	1.7	10136	1	US-08-353-700-2	Sequence 2, Appli
44	35.6	1.7	10136	5	PCT-US95-16216-2	Sequence 2, Appli
45	35.2	1.7	3466	1	US-08-468-036-38	Sequence 38, Appl

ALIGNMENTS

RESULT 1
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; Sequence 1, Application US/09687875A
; Patent No. 6544786
; GENERAL INFORMATION:
; APPLICANT: Liu, Paul
; TITLE OF INVENTION: METHOD AND VECTOR FOR PRODUCING AND TRANSFERRING TRANS-SPIC
; FILE REFERENCE: 00792
; CURRENT APPLICATION NUMBER: US/09/687,875A
; CURRENT FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: 60/158,868
; PRIOR FILING DATE: 1999-10-15
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 5952
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (2897)..(2898)
; OTHER INFORMATION: S4 junction site
; NAME/KEY: misc.feature
; LOCATION: (3198)..(3199)
; OTHER INFORMATION: S2 junction site
US-09-687-875A-1

Query Match 52.5%; Score 1071; DB 4; Length 5952;
Best Local Similarity 68.0%; Pred. No. 2.8e-314;
Matches 2041; Conservative 0; Mismatches 0; Indels 960; Gaps 1;

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QY 1741 CTTGCACCTCCGCTGACTGGCAGAGAAAATAGATGAGACCCCTTGAAGAGACTCCAGGAACT 1800
Db 3651 CTTGCACCTCCGCTGACTGGCAGAGAAAATAGATGAGACCCCTTGAAGAGACTCCAGGAACT 3710
QY 1801 TCAAGAGCCACGATGAGCTGAGCTCAAGCTGCGCAAGCTGAGGTGATCAAGGATC 1860
Db 3711 TCAAGAGCCACGATGAGCTGAGCTCAAGCTGCGCAAGCTGAGGTGATCAAGGATC 3770
QY 1861 CTGGCAGCCGCTGGGCGATCTCTCATTTGACTCTCTCAAGATCACTCGAGAAAGTCAA 1920
Db 3771 CTGGCAGCCGCTGGGCGATCTCTCATTTGACTCTCTCAAGATCACTCGAGAAAGTCAA 3830
QY 1921 GGCACCTTGAGAGAAATTCGCGCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGC 1980
Db 3831 GGCACCTTGAGAGAAATTCGCGCTCTGAAAGAGAACGTGAGCCACGTCAATGACCTTGC 3890
QY 1981 TGGCAGCTTACACACTTGGGCAATTCAGCTCTCAGCTTACAGTATCACTGAGACTCTGGAGA 2040
Db 3891 TGGCAGCTTACACACTTGGGCAATTCAGCTCTCAGCTTACAGTATCACTGAGACTCTGGAGA 3950
QY 2041 C 2041
Db 3951 C 3951

RESULT 2
US-09-484-970B-60
; Sequence 60, Application US/09484970B
; Patent No. 6426186
; GENERAL INFORMATION:
; APPLICANT: Jones, Karen A.
; APPLICANT: Volkmut, Wayne
; APPLICANT: Walker, Michael G.
; TITLE OF INVENTION: BONE REMODELING GENES
; FILE REFERENCE: PB-0014 US
; CURRENT APPLICATION NUMBER: US/09/484,970B
; CURRENT FILING DATE: 2000-01-18
; NUMBER OF SEQ ID NOS: 172
; SOFTWARE: PERL Program
; SEQ ID NO 60
; LENGTH: 13977
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; OTHER INFORMATION: Incyte ID No. 6426186 229357.11CB1
; NAME/KEY: unsure
; LOCATION: 11721-11761, 12294, 13969
; OTHER INFORMATION: a, t, c, g, or other
US-09-484-970B-60
Query Match 51.1%; Score 1043.4; DB 4; Length 13977;
Best Local Similarity 99.9%; Pred. No. 1.1e-305;
Matches 1044; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 TCCTTCACAGATTGGAGCTCTGAGAGCAAGTCAATTTGGCAGTTCATTTGATGAGAGAG 60
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Db 1159 TCCTTCACAGATTGGAGCTCTGAGAGCAAGTCAATTTGGCAGTTCATTTGATGAGAGAG 1218
QY 61 TGAAGTAAACCTGGACCGTTATCAAAACACCTTTAGAGAGATTAATTCGCGCTTCTTC 120
Db 1219 TGAAGTAAACCTGGACCGTTATCAAAACACCTTTAGAGAGATTAATTCGCGCTTCTTC 1278
QY 121 TGCCTGAGACACATTGCAACGACAGAGATTTCTTAATGATGCGAGATGCGTGAAGA 180
Db 1279 TGCCTGAGACACATTGCAACGACAGAGATTTCTTAATGATGCGAGATGCGTGAAGA 1338
QY 181 CCAGTTTCATCTACTCATGAGGGGTACATGATGATTTGACAGCCCATCAGGCGCGGTTGG 240
Db 1339 CCAGTTTCATCTACTCATGAGGGGTACATGATGATTTGACAGCCCATCAGGCGCGGTTGG 1398
QY 241 TAATATTTCAATTTGGGAAGTAAAGCTGATTTGGAACAGAGAAAATTAATTCAGAGATGAAGA 300
Db 1399 TAATATTTCAATTTGGGAAGTAAAGCTGATTTGGAACAGAGAAAATTAATTCAGAGATGAAGA 1458
QY 301 AACTGAATTAACAAGCAGATGAATCTCCTAAATTCAGATGGGAATGCTCAGGCTAGC 360
Db 1459 AACTGAATTAACAAGCAGATGAATCTCCTAAATTCAGATGGGAATGCTCAGGCTAGC 1518
QY 361 TAGCATGGAAAAACAAAGCAATTTACATAGAGTTTAAATGATCTCCAGAAATCAGAAACT 420
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QY 421 GAAAGATTTGAATGACTGGGTAAACAAAACAGAGAAAACAAAGAAAATGAGAGAGA 480
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QY 481 GCCTCTTGACCTCATCTTGAAGACCTTAAACGCAAGTCAACACATTAAGTGCCTTCA 540
Db 1639 GCCTCTTGACCTCATCTTGAAGACCTTAAACGCAAGTCAACACATTAAGTGCCTTCA 1698
QY 541 AGAAGATCTAGAACAGAACAGTCAAGGTCAATTTCTCTCACTCAGATGGTGGTAGT 600
Db 1699 AGAAGATCTAGAACAGAACAGTCAAGGTCAATTTCTCTCACTCAGATGGTGGTAGT 1758
QY 601 TGATGAATCTAGTGGAGATCACGCAACTCTCTCTTTGGAAGAACACATTAAGTATTTGGG 660
Db 1759 TGATGAATCTAGTGGAGATCACGCAACTCTCTCTTTGGAAGAACACATTAAGTATTTGGG 1818
QY 661 AGATCGATGGCAACATCTGTAGATGGACAGACGCGCTGGTCTTTTACAGACAT 720
Db 1819 AGATCGATGGCAACATCTGTAGATGGACAGACGCGCTGGTCTTTTACAGACAT 1878
QY 721 CCTTCTCAATGGCAACGCTTACTTACTGAAGACAGTGCCTTTTGTAGTCATGGCTTTCAGA 780
Db 1879 CCTTCTCAATGGCAACGCTTACTTACTGAAGACAGTGCCTTTTGTAGTCATGGCTTTCAGA 1938
QY 781 AAAAGAGATCGATGAACAAAGATTCAACAACTGGCTTTAAGATCAAAATGAATGTT 840
Db 1939 AAAAGAGATCGATGAACAAAGATTCAACAACTGGCTTTAAGATCAAAATGAATGTT 1998
QY 841 ATCAAGTCTTCAAAAACCTGGCGCTTTTAAAGCGGATCTAGAAAAGAAAACCAATCCAT 900
Db 1999 ATCAAGTCTTCAAAAACCTGGCGCTTTTAAAGCGGATCTAGAAAAGAAAACCAATCCAT 2058
QY 901 GGGCAAACTGATTTCACCTCAACAGATCTTCTTTCAACACTGAAGAATAAGTCAAGTAC 960
Db 2059 GGGCAAACTGATTTCACCTCAACAGATCTTCTTTCAACACTGAAGAATAAGTCAAGTAC 2118
QY 961 CCAGAAGACGGAAGCAGTGGCTGGATAACTTTGCCGGGTGTTGGGATAAATTTAGTCCAAA 1020
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QY 1021 ACTTGAAGAGTACACACAGACT 1045
Db 2179 ACTTGAAGAGTACACACAGACT 2203
RESULT 3
US-08-836-022A-10/c

Qy	1365	TCACATATTAGTCCCATTTGGAGCCAGTCTTCTGACAGTGGAGCGCTCGCAGCTTCTC	1424
Db	6105	TCACATATTAGTCCCATTTGGAGCCAGTCTTCTGACAGTGGAGCGCTTCTGACATTTCTC	6046
Qy	1425	TCGAGGAACCTTCGTGTGGCTACAGCTGAAAGATCATGAATTAAGCCGCGAGGCACCTA	1484
Db	6045	TTGAGGAACCTTCGTGTGGCTACAGCTGAAAGATCATGAATTAAGCCGCGAGGCACCTA	5986
Qy	1485	TTGAGGCGGACTTTCAGCAGCTTCAGAAAGCAGAAAGATGTACATAGGCGCTTCAAGAGG	1544
Db	5985	TCGTGTGTGATTTCCAGCAGCTTCAGAAAGCAGAAATGATACATAGGCGCTTCAAGAGG	5956
Qy	1545	TAATGAAACATAAGAACTGTATCATGAGTACTCTTGAGAGCTGACGATATTTCTGA	1604
Db	5925	TAATGAAACATAAGAACTGTATCATGAGTACTCTTGAGAGCTGACGATATTTCTGA	5866
Qy	1605	CAGAGCGGCTTTGAAAGGACTAGAGAAACTCTACAGAGCCAGAGAGCTGCCTCCTG	1664
Db	5865	CAGAGCGGCTTTGAAAGGACTAGAGAAACTCTACAGAGCCAGAGAGCTGCCTCCTG	5806
Qy	1665	AGGAGAGAGCCCAAGATGTCTACGCTTCGCTTACGAAAGCAGGCTGAGAGGTCAATPCTG	1724
Db	5805	TAAGAAAGAGCTCAGATGTCTACGCTTCGCTTACGAAAGCAGGCTGAGAGGTCAATPCTG	5746
Qy	1725	AGTGGGAAAAATTAACCTGACCTCCCTGACTGCGCAGAGAAAAATGATGAGACCCCTG	1784
Db	5745	TAATGGCAAAATTAACCTGCGCTGACTGATGGCAGAGAAAAATGATGAGCTCTTGG	5686
Qy	1785	AAAGACTCCAGGAACTTCAAGAGGCGCAGGATGAGCTGAGCTCAAGCTCGCGCAAGCTG	1844
Db	5685	AAAGACTCCAGGAACTTCAAGGAGCTGCCGATGAATGAGGCTCAAGCTGCGCGCAAGCTG	5626
Qy	1845	AGGTGATCAAGGGATCCTGGCAGCCGCTGGGCGATCTCTCATGACTCTCTCCAGATC	1904
Db	5625	AGGTGATCAAGGGATCCTGGCAGCCAGCTGGGCGATCTCTCATGACTCTCTCCAGATC	5566
Qy	1905	AGCTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTCGCTCTGAAAGAGAGCTGAGCC	1964
Db	5565	AGCTTGAAGAAAGTCAAGGCACTTCGAGGAGAAATTCGCTCTGAAAGAGAGCTGAGCC	5506
Qy	1965	AGCTCAATGACCTTGCTCGCCAGCTTACCACTTTGGGCAATTCAGCTCTCACGATATAAC	2024
Db	5505	GTGTCAATGACCTTGCCACATCAGCTGACCACACTGGGCAATTCAGCTCTCACGATATAAC	5446
Qy	2025	TCAGCACTCTGGAGA 2040	
Db	5445	TCAGCACTCTGGAGA 5430	
RESULT 4			
US-09-427-048A-10/C			
; Sequence 10, Application US/09427048A			
; Patent No. 6203975			
GENERAL INFORMATION:			
APPLICANT: Trustees of the University of Pennsylvania			
Wilson, James M.			
Fisher, Krishna J.			
Chen, Shu-Jen			
Weitzman, Matthew			
TITLE OF INVENTION: Improved Adenovirus Virus and			
Methods of Use Thereof			
NUMBER OF SEQUENCES: 10			
CORRESPONDENCE ADDRESS:			
ADDRESSEE: Howson and Howson			
STREET: Spring House Corporate Cntr, P O Box 457			
CITY: Spring House			
STATE: Pennsylvania			
COUNTRY: USA			
ZIP: 19477			
COMPUTER READABLE FORM:			
MEDIUM TYPE: Floppy disk			
COMPUTER: IBM PC compatible			

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SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
  APPLICATION NUMBER: US/09/427.048A
  FILING DATE: 21-Oct-1999
  CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
  APPLICATION NUMBER: 08/936,022
  FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
  NAME: Bak, Mary E.
  REGISTRATION NUMBER: 31,215
  REFERENCE/DOCKET NUMBER: GNVPN.008PCT
TELECOMMUNICATION INFORMATION:
  TELEPHONE: 215-540-9200
  TELEFAX: 215-540-5818
INFORMATION FOR SEQ ID NO: 10:
  SEQUENCE CHARACTERISTICS:
    LENGTH: 19307 base pairs
    TYPE: nucleic acid
    STRANDEDNESS: double
    TOPOLOGY: unknwn
    MOLECULE TYPE: cdna
    SEQUENCE DESCRIPTION: SEQ ID NO: 10:
US-09-427-048A-10

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Query Match 41.5%; Score 847.2; DB 3; Length 19307;
Best Local Similarity 88.6%; Pred. No. 5e-246;
Matches 918; Conservative 0; Mismatches 118; Indels 0; Gaps 0;

QY	1005	ATATATTAGTCCAAAAA	CTTGAAGAGAGTACAGCAGACTCATAGATTACTGCAACAGT	1064
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QY	1065	TCGCCCTGGACCTGGAAAAG	TTCTTGCTGCCTTACAGAGAGCTGAAACAACTCCCAATG	1124
Db	6405	TCCTCTGAGACTGGAGAAG	TTCTTCTCGGATTTCGGAGAGCAGAAACACTGCGCAATG	6346
QY	1125	TCCTACAGGATGCTAC	CCCGTAAGGAAGGCTCCTAGAGACTCCAAGGAGTAAGAAGC	1184
Db	6345	TCCTACAGGACGCTCC	CGTAGGAGAAGCTCCTAGAAAGACTCCAGGGGAGTCAGAGAGC	6286
QY	1185	TGATGAACAATGGG	CAAGACCTCCAGAGTGAATTTGAAGTCCACAGAGTGTTTATCACA	1244
Db	6285	TGATGAACCACTGG	CAAGATCTCCAGAGAGAAATTTGAACCTCACAGAGATATCTATCACA	6226
QY	1245	ACCTGGATGAACCAAC	AGCCAGCAAAAATCCTGAGATCCCTGGAAAGTTCGGATGATGCAGTCC	1304
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QY	1305	TGTTTACAAGACGTT	TGGATTAACATGAATTCAGTGGAGTGAACCTTCGGAAAAAGTCTC	1364
Db	6165	TGTTTACAAGACGTT	TGGATTAACATGAATTTCAAGTGGAGTGAACCTTCAGAAAAAGTCTC	6106
QY	1365	TCACATTAGGTCCCA	ATTGGAAGCCAGTTCTTGACAGCTGGGAAGCGTCTGCACCTTTCTC	1424
Db	6105	TCACATTAGTCCCA	TTTGGAGCAAGTCTTGACCACTGGAGCGTTTGCACTCTTTCTC	6046
QY	1425	TGCAGGAACCTTG	TGTGTGGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGGCACTA	1484
Db	6045	TTCAGGAACCTCT	TTGTTGGCTACAGCTGAAAGATGATGAATGAGCCGCTCAGGCACTCA	5986
QY	1485	TTGGAGCGCACTTT	CCACAGTTCAGAGACAGAAAGATGTACATAGGGGCTTTCAGAGGG	1544
Db	5985	TCGGTGTGTATTT	CCACAGCTTCAGAGACAGAAATGATATACATAGGGGCTTTCAGAGGG	5926
QY	1545	AATTTGAATACTAA	GAACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTCTCGA	1604
Db	5925	AATTTGAATACTAA	GAACCTGTATCATGAGTACTCTGGAGACTGTGAGNAATATTCTCGA	5866
QY	1605	CAGAGACGCTTTG	GAAGACTAGAGAACTCTTACAGAGCCCAAGAGAGCTGCCTCTCG	1664
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QY	1665	AGGAGAGAGCCCAAGATGTCCTACTCGGCTTCTACGAAACAGAGCTGAGGAGGTCAATACGTG	1724
Db	5805	AAGAAAGAGCTCAGAAATGTCCTACTCGGCTCTCAGAAACAGGCTGAGAGAGGTCAACGCTG	5746
QY	1725	AGTGGGNAAAATTGAACCTGCACCTCCGCTGACTCGCAGAGAAATAGATGAGACCCCTTG	1784
Db	5745	AATGGGCAAAATTGAACCTGGCTTCAGCTGATGTGCAGAGAAATAGATGAGCTCTTTG	5886
QY	1785	AAAGACTCCAGAAATTCGAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCCAAGCTG	1844
Db	5685	AAAGACTCCAGGAATTCAGGAAGCTGCCGATGAATGGACCTCAAGTTGCGCCCAAGCTG	5626
QY	1845	AGGTGATCAAGGAGATCTTGGCAGCCCGTGGCGGATCTCCTCATTTGACTCTCTCCAGATC	1904
Db	5625	AGGTGATCAAGGAGATCTTGGCAGCCAGTGGGGGATCTCCTCATTTGACTCTCTGCAAGATC	5566
QY	1905	ACCTCGAGAAAGCTCAAGSCATCTCGAGAGAAATTCGCGCTCTGAAAGAGAACGTGAGCC	1964
Db	5565	ACCTTGAAAAGTCAAGGCATCTCGGGGAGAAATTCGACCTCTTAAAGAGAATGCAATC	5506
QY	1965	ACGTCAATGACCTTTGCTCGCCAGCTTACCACTTTGGGCAATTCAGCTCTCACCGTATAACC	2024
Db	5505	GTGTCAATGACCTTGCACATCAGCTGACCACACTGGSCATTCAGCTCTCACTTATTAACC	5446
QY	2025	TCAGCACTCTGGAAGA	2040
Db	5445	TCAGCACTTTGGAAGA	5430

RESULTS 5

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US-09-091-501B-7
? Sequence 7, Application US/09091501B
? Patent No. 6518413
? GENERAL INFORMATION:
? APPLICANT: Tinsley, Jonathan M
? APPLICANT: Davies, Kay E
? TITLE OF INVENTION: Urothrin gene expression
? FILE REFERENCE: 620-42
? CURRENT APPLICATION NUMBER: US/09/091,501B
? CURRENT FILING DATE: 1998-06-18
? PRIOR APPLICATION NUMBER: PCT/GB96/03156
? PRIOR FILING DATE: 1996-12-19
? PRIOR APPLICATION NUMBER: GB 9525962.8
? PRIOR FILING DATE: 1995-12-19
? PRIOR APPLICATION NUMBER: GB 9615797.9
? PRIOR FILING DATE: 1996-07-26
? PRIOR APPLICATION NUMBER: GB 9622174.2
? PRIOR FILING DATE: 1996-10-24
? NUMBER OF SEQ ID NOS: 15
? SOFTWARE: Patentin Ver. 2.1
? SEQ ID NO 7
? LENGTH: 6045
? TYPE: DNA
? ORGANISM: Artificial Sequence
? FEATURE:
? NAME/KEY: CDS
? LOCATION: (11)..(6037)
? FEATURE:
? OTHER INFORMATION: Description of Artificial Sequence: Chimeric
? FEATURE:
? NAME/KEY: misc_feature
? LOCATION: (724)..(758)
? OTHER INFORMATION: Precise residue is left open
US-09-091-501B-7

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	Query Match	16.88;	Score 343;	DB 4;	Length 6045;
	Best Local Similarity	59.0%;	Pos. No. 2.6e-93;		
	Matches 589;	Conservative	0;	Mismatches 410;	Indels 0;
	Gaps				
Qy	44	AGTTTCATTGATGCAGAGTGAAGTAAACCTGGACCGCTTATCAACACGCTTTAGAGAAAGTA	103		
	914	AGCACCGCTCACTAGTGTGCATATGATTTGGACAGCTACCCAGATAGCGCTAGAGGAAGT	973		
Db					

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QY 104 TTATCGTGGCTTTCTTCTGAGGACACATGTCACAGACAAAGAGAGATTTCTAATGAT 163
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Db 974 CTGACGTGGCTGCTGTCGGGAGGACAGCTTCCAGAGCAAGATGACATTCGATGAT 1033
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QY 164 GTGAGATGTTGAAGACACCATCTTATCATCTATGAGGGTACATGATGATTTGACAGCC 223
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Db 1034 GTGCAAGATGTCACAGAGCAGTGTGCTACCCATGAACATTTTATGATGAGCTGACAGCA 1093
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QY 224 CATCAGGCGCGGTGGTAAATTTCTACATTTGGGAAGTAAGCTGATTTGGACAGAA 283
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Db 1094 CACAGAGAGCGTGGGAGCGTCTCTGAGGCTGGCAACCCAGCTGATGACACAGAGGACT 1153
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QY 284 TTATCAGAAGATGAAGAACTGAATACAAAGACAGATGAATCTCTAAATCAAGATGG 343
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Db 1154 CTGTCAGAGGAGGAGGATTTGAGATCCAGACACATGACCTTCTGATGACAGGTGG 1213
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QY 344 GAATGCTCTAGGCTAGTAGGAAAAAAGCAATTTACATAGAGTTTAAATGGAT 403
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Db 1214 GAGCGCTCCGGTGGAGAGCATGAGAGGACGTCCCGCTGCACGACGCTCTGATGGAG 1273
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QY 404 CTCAGAAATCAGAACTGAAGAGTTGATGATGCTGTACAAACACAGAGAGAA 463
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QY 464 AGGAAATGAGGAGAGGAGCTCTTGGAGCTGATCTTGAAGACCTAAAGCCCAAGTACAA 523
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Db 1334 CAGAGATGAGAGAGGAGGCTCCGCTGGGTGATGAGCTTCCCTCCCTGCAAGAGCTCTCAA 1393
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QY 524 CAACATAGGTGCTTCAAGAGATCTAGAAACAAAGTCAAGGCTCAATTTCTCTCACT 583
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Db 1394 GAACATAAAAGTTTGCAAAATGACCTTGAAGCTGAACAGTGAAGTAAATCTTAACT 1453
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QY 584 CACATGTTGGTGTAGTGTGATGATCTAGTGGAGATCAGCAACTGCTGCTTGGAGAA 643
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Db 1454 CACATGTTGGTGTAGTGTGATGATCTAGTGGAGATGAGTGGAGAGTGGTCTTCTGGAAGAT 1513
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QY 644 CAACATTAAGTATTGGAGATGATGATGGCAAAACATCTGATGATGACAGAGAGCGGTGG 703
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1514 CAGTTACAGAACTGGGTGAGCGCTGGACAGCTGTATGCCGTGGACTGAGAGACGTGG 1573
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 704 GTTCTTTTACAGACATCTCTCAATGGCAACGCTTCTACTGAGAGACAGCTGCTTTT 763
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Db 1574 AACAGGTTGAAGAAATCAGTATCTCTGGCAGGAATTTATGGAAGAGCAGTGTCTGTTG 1633
   ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY 764 AGTGCATGGCTTTCAGAAAAGAGATCCAGTGAACAGATTCACACAACTGGCTTTAA 823
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Db 1634 GAGCTTGGCTCCACCAAGAGAGAGGCTTTGAATTAAGTTTCAACCCAGCAACTTTAA 1693
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QY 824 GATCAAAATGAATGTATCTAAGTCTTCAAAAACCTGGCCGCTTTTAAAGCGGATCTAGAA 883
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Db 1694 GACCAGAGGAACACTAAGTGTCTCAGTGTCCGGGCTCTGCTATATTGAAGAGACATGAA 1753
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QY 884 AAGAAAAGCAATCCATGGGCAACTGTATTTCTACTCAAAACAGATCTTCTTCAACTG 943
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Db 1754 ATGAAGAGGAGAGACTGTGATCAACTGAGTGAATGAGTGGCCAGAGATGTGGGCCAATTA 1813
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QY 944 AAGAAATAGTCACTGACCCAGAGACAGGAGAGATGCTGTGATTAATCTTGGCCGCTGTTG 1003
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Db 1814 AGTAATCCCAAGCATCTAAGAGATGAACAGTGAATCTGAGGAGCTTAACACAGAGATGG 1873
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QY 1004 GATAATTTAGTCCAAAACCTTGAAGAGATGACAGACAG 1042
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Db 1874 GATTCTCTGTTCCAGAGACTCGAAGACTCTTCTTAACAG 1912
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RESULT 6

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US-09-091-501B-9
; Sequence 9, Application US/09091501B
; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: finsley, Jonathon M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Utrrophin gene expression
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; FILE REFERENCE: 620-42
; CURRENT APPLICATION NUMBER: US/09/091,501B
; CURRENT FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: PCT/GB96/03156
; PRIOR FILING DATE: 1996-12-19
; PRIOR APPLICATION NUMBER: GB 9525962.8
; PRIOR FILING DATE: 1995-12-19
; PRIOR APPLICATION NUMBER: GB 9615797.9
; PRIOR FILING DATE: 1996-07-26
; PRIOR APPLICATION NUMBER: GB 9622174.2
; PRIOR FILING DATE: 1996-10-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 10320
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (11)..(10312)
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Full length
; OTHER INFORMATION: utrophin construct
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (724)..(758)
; OTHER INFORMATION: Precise residue is left open
US-09-091-501B-9
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Query Match 16.8%; Score 343; DB 4; Length 10320;

Best Local Similarity 59.0%; Pred. No. 3.6e-93;

Matches 589; Conservativity 0; Mismatches 410; Indels 0; Gaps 0;

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QY 44 AGTCATTGATGGAGAGTGAAGTAAACCTGGACCGTTATCAACAGCTTTAGAAGAAGTA 103
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QY 104 TTATCGTGGCTTTCTCTGAGGACACATGTCAGACACAAAGGAGAGATTTCTAATGAT 163
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Db 974 CTGACGTGGCTGCTGTCCCGGAGGACAGTTCGAGACAGATGACATTTCTGATGAT 1033
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QY 464 AGGAAATGAGGAGAGGAGCTCTTGGAGCTGATCTTGAAGACCTAAAGCCCAAGTACAA 523
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QY 524 CAACATAGGTGCTTCAAGAGATCTAGAAACAAAGTCAAGGCTCAATTTCTCTCACT 583
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US-09-198-452A-1/c
; Sequence 1, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
; APPLICANT: Griffiths, R.
; TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragments thereof and uses thereof, in particular for the diagnosis, prevention and treatment of infection
; TITLE OF INVENTION: and treatment of infection
; FILE REFERENCE: 9710-003-999
; CURRENT APPLICATION NUMBER: US/09/198,452A
; CURRENT FILING DATE: 1998-11-24
; NUMBER OF SEQ ID NOS: 6849
; SEQ ID NO 1
; LENGTH: 1230025
; TYPE: DNA
; ORGANISM: Chlamydia pneumoniae
; FEATURE:
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RESULT 13
US-09-107-532A-1186
; Sequence 1186, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
; MEDIUM TYPE: CD-ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 1186:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1179 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: circular
; MOLECULE TYPE: DNA (genomic)
; HYPOTHEetical: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (B) LOCATION 1...1179
; SEQUENCE DESCRIPTION: SEQ ID NO: 1186:
US-09-107-532A-1186

Query Match 2.1%; Score 43.4; DB 4; Length 1179;
Best Local Similarity 50.7%; Pred. No. 0.0076;
Matches 104; Conservative 0; Mismatches 101; Indels 0; Gaps 0;

QY 411 ATCAGAACTGAAGACGTTGATCTGCTGCGTCAACAAAACAGACAGACAGACAGAAA 470
Db 602 AGCAAGATAAAGATTTGATTCATCAGACAAAGAAAATTCGATGACGATCGGAGNA 661
QY 471 TGGAGGAAGAGCGCTTGGACCTCATCTTGAAGACTAAACGCGCAAGTACACACATA 530
Db 662 TTGTAGAGTGTCTGTTGGAGCGCTCCAGCTGGATTAGGAGCTAGCTACATGGACA 721
QY 531 AGGTGCTTCAAGAAGATCTAGACAGACAAACATCAGGCTCAATTCTCTCACTCATCG 590
Db 722 CGAGCTAGATGCCAAATATCCACAAGCTGTGGTGTAGTATCAATGCTTTAAGCGCTAG 781
QY 591 TGGTGGTAGTGTGATGAATCTAGTGG 615
Db 782 AATTGGGGTTCGGATTCACCTTCTGG 806

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Db 1140 CCAAGTTTCATCTATGAGGGGTACATGATGGATTTGACAGCCCATCAGGCGCGGGTTGG 1199
QY 241 TAATATTCTACAAATGGGAAGTAAGCTGATTGGAACAGAGAAATTTATCAGAAGATGAAGA 300
Db 1200 TAATATTCTACAAATGGGAAGTAAGCTGATTGGAACAGAGAAATTTATCAGAAGATGAAGA 1259
QY 301 AACTGAAGTACAGAGCAGATGAATCTCTTAATTAACAGATGGGAATGCCCTCAGGGTAGC 360
Db 1260 AACTGAAGTACAGAGCAGATGAATCTCTTAATTAACAGATGGGAATGCCCTCAGGGTAGC 1319
QY 361 TAGCATGGAAACAAACAGCAATTTACATAGATTTTAAATGGATCTCCAGAAATCAGAACT 420
Db 1320 TAGCATGGAAACAAACAGCAATTTACATAGATTTTAAATGGATCTCCAGAAATCAGAACT 1379
QY 421 GAAAGAGTTGAATGACTGGCTTAACAAAACAGAGAAAGAACAAAGAAATGGAGGAAGA 480
Db 1380 GAAAGAGTTGAATGACTGGCTTAACAAAACAGAGAAAGAACAAAGAAATGGAGGAAGA 1439
QY 481 GCCTCTTGGACCTGATCTTGAAGACCTTAACACGCCAAGTACAAACATAGGTGCTTCA 540
Db 1440 GCCTCTTGGACCTGATCTTGAAGACCTTAACACGCCAAGTACAAACATAGGTGCTTCA 1499
QY 541 AGAAGATCTAGAACAGAACAGTACAGGGTCATTTCTCTCACTCACTGATGGTGGTAGT 600
Db 1500 AGAAGATCTAGAACAGAACAGTACAGGGTCATTTCTCTCACTCACTGATGGTGGTAGT 1559
QY 601 TGATGATCTAGTGGAGATCAGCAACTGCTTTGGGAAGAACAACTTAAGGTATTGGG 660
Db 1560 TGATGATCTAGTGGAGATCAGCAACTGCTTTGGGAAGAACAACTTAAGGTATTGGG 1619
QY 661 AGATCGATGGCAACATCTGTAGATGGACAGAGACCCCTGGGTCTTTTACAGACAT 720
Db 1620 AGATCGATGGCAACATCTGTAGATGGACAGAGACCCCTGGGTCTTTTACAGACAT 1679
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Db 1680 CCTCTCAATGTCACACCTCTTACTGAGACAGTCCCTTTTGTGCGATGGCTTCAG 1739
QY 781 AAAAGAGATGCAAGTGAACAGATTCACAACTGGCTTTAAAGATCAAAATGAATGTT 840
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QY 841 ATCAAGTCTCAAACTGGCGGTTTAAAGCGGATCTAGAAAAGAAAAGCAATCCAT 900
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QY 901 GGGCAAACTGATTTCACTCAACAGATCTTCTTCAACACTGAAGATGAAGTCACTGAC 960
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QY 961 CCAGAAGACGGAAGCATGGCTGGATAACTTTGGCCGGTGTGGGATAATTTAGTCCAAA 1020
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QY 1021 ACTTGAAGAGTACAGACAGACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGA 1080
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QY 1141 CCGTAAGAAAGGCTCCTAGAGACTCCAAAGGGAGTAAAGAGCTGATGAACAAATGGCA 1200
Db 2100 CCGTAAGAAAGGCTCCTAGAGACTCCAAAGGGAGTAAAGAGCTGATGAACAAATGGCA 2159
QY 1201 AGACTCCAGAGTGAATGAAGTCAACAGATGTTTATCACCCTGGATGAACACAG 1260
Db 2160 AGACTCCAGAGTGAATGAAGTCAACAGATGTTTATCACCCTGGATGAACACAG 2219
QY 1261 CCAAAAAATCCTGAGATCCCTGGAGGTTCGGATGATGAGTCCCTGTTTACAAAGACGTTT 1320
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QY 1321 GGATAACATGAATCTCAAGTGGAGTGAACCTCGAAAAAGTCTCTCAACATTAGGTCCCA 1380
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QY 1381 TTTGGAAAGCCAGTTCTGACCACTGGAAGCGTCTGCACCTTTCTCTGCAGGAATCTTGGT 1440
Db 2340 TTTGGAAAGCCAGTTCTGACCACTGGAAGCGTCTGCACCTTTCTCTGCAGGAATCTTGGT 2399
QY 1441 GTGGCTACAGCTGAAGATGATGAATTAAGCCGGCAGGACCTATTGGAGCCGACCTTC 1500
Db 2400 GTGGCTACAGCTGAAGATGATGAATTAAGCCGGCAGGACCTATTGGAGCCGACCTTC 2459
QY 1501 AGCAGTTCAAGAGCAGAACGATGTACATAGGGCTTCAAGAGGGAATTTGAAAACTAAAGA 1560
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QY 1681 TGTCACTCGGCTTCTACGAAAGCAGGCTGAGAGGTCATATCTAGTGGGAAAAATTTGAA 1740
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QY 1741 CCTGCACTCGGCTGATGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAAT 1800
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QY 1801 TCAAGAGGCCAGGATGAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGATC 1860
Db 2760 TCAAGAGGCCAGGATGAGCTGGACCTCAAGCTGCGCCCAAGCTGAGGTGATCAAGGATC 2819
QY 1861 CTGGCAGCCGCTGGGCGATCTCTCATTTGACTCTCTCCAAAGATCACTCCGAGAAAGTCAA 1920
Db 2820 CTGGCAGCCGCTGGGCGATCTCTCATTTGACTCTCTCCAAAGATCACTCCGAGAAAGTCAA 2879
QY 1921 GGCACCTTCAGGAGAAATTTGGCTCTGAAAGAGACGTGAGCCACGTCAATGACCTTGC 1980
Db 2880 GGCACCTTCAGGAGAAATTTGGCTCTGAAAGAGACGTGAGCCACGTCAATGACCTTGC 2939
QY 1981 TCGCAGCTTACACCTTTGGCATTTCAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGA 2040
Db 2940 TCGCAGCTTACACCTTTGGCATTTCAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGA 2999
QY 2041 C 2041
Db 3000 C 3000

RESULT 2

US-09-845-416-27
; Sequence 27, Application US/09845416
; Publication No. US2003071312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 5149
; TYPE: DNA
; ORGANISM: Homo sapiens

US-09-845-416-27

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QY	61	TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTTGAAGAAAGTATTTCGTGGCTTCCTTC	120
Db	1777	TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTTGAAGAAAGTATTTCGTGGCTTCCTTC	1836
QY	121	TGCTGAGACACATTTGAACACACAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA	180
Db	1837	TGCTGAGACACATTTGAACACACAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA	1896
QY	181	CCAGTTTCATCTCATGAGGGTACATGATGATTTGACAGCCCATCAGGCGGGTGG	240
Db	1897	CCAGTTTCATCTCATGAGGGTACATGATGATTTGACAGCCCATCAGGCGGGTGG	1956
QY	241	TAATATTCTACAAATTGGGAAGTAAAGCTGATTGGAACAGGAAATTTATCAAGAGTCAAGA	300
Db	1957	TAATATTCTACAAATTGGGAAGTAAAGCTGATTGGAACAGGAAATTTATCAAGAGTCAAGA	2016
QY	301	ACTGAAGTCAAGAGCAGATGAATCTCCTAAATTCAGATGGGAATGCTCAGGGTAGC	360
Db	2017	AACTGAAGTCAAGAGCAGATGAATCTCCTAAATTCAGATGGGAATGCTCAGGGTAGC	2076
QY	361	TAGCATGAAACACAAAGCAATTTACATAGCTTTTAAATGATCTCCAGNACAGAACT	420
Db	2077	TAGCATGAAACACAAAGCAATTTACATAGCTTTTAAATGATCTCCAGNACAGAACT	2136
QY	421	GAAAGATTGAATGACTGGCTAAACAAAAACAGAGAAAGAACAGGAAATGGAGAAAGA	480
Db	2137	GAAAGATTGAATGACTGGCTAAACAAAAACAGAGAAAGAACAGGAAATGGAGAAAGA	2196
QY	481	GCCTCTGGACCTGATCTTGAAGCCTTAAACGCCAAGTACACACATTAAGTGTGCA	540
Db	2197	GCCTCTGGACCTGATCTTGAAGCCTTAAACGCCAAGTACACACATTAAGTGTGCA	2256
QY	541	AGAAGATCTAGAACAAGCAAGTCAAGGTCAATTTCTCACTCACATGTTGTTGATG	600
Db	2257	AGAAGATCTAGAACAAGCAAGTCAAGGTCAATTTCTCACTCACATGTTGTTGATG	2316
QY	601	TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAAGAACAACTTAAGGTATGG	660
Db	2317	TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAAGAACAACTTAAGGTATGG	2376
QY	661	AGATCGATGGGCAACATCTGTAGATGGACAGAACCCGCTGGGTTCTTTTACAGACAT	720
Db	2377	AGATCGATGGGCAACATCTGTAGATGGACAGAACCCGCTGGGTTCTTTTACAGACAT	2436
QY	721	CCTTCTCAATGGCAACGCTCTACTGAAGACAGTGCCTTTTATAGTCAGTGGCTTCAGA	780
Db	2437	CCTTCTCAATGGCAACGCTCTACTGAAGACAGTGCCTTTTATAGTCAGTGGCTTCAGA	2496
QY	781	AAAAGAAGATGCAGTGAACAGATTCACACAACTGGCTTTTAAAGATCAAAATGAATGTT	840
Db	2497	AAAAGAAGATGCAGTGAACAGATTCACACAACTGGCTTTTAAAGATCAAAATGAATGTT	2556
QY	841	ATCAAGTCTTCAAAACTGGCCGTTTAAAGCGGATCTAGAAAGAAAAAGCAATCCAT	900
Db	2557	ATCAAGTCTTCAAAACTGGCCGTTTAAAGCGGATCTAGAAAGAAAAAGCAATCCAT	2616
QY	901	GGCAAACTGTATTCACCTAAACAGATCTCTTTCACACTGAAGAAATTAAGTCAGTAC	960
Db	2617	GGCAAACTGTATTCACCTAAACAGATCTCTTTCACACTGAAGAAATTAAGTCAGTAC	2676
QY	961	CCAGAGAGCGGAGCATGGCTGGATAACTTTGCCCGGTGGTGGGATTAATTTAGTCCAAA	1020
Db	2677	CCAGAGAGCGGAGCATGGCTGGATAACTTTGCCCGGTGGTGGGATTAATTTAGTCCAAA	2736

QY	1021	ACTTGAAGAGAGTACAGCAGACTCATAGATTACTGCAACAGTTCCTCCCTGCACTGGA	1080
Db	2737	ACTTGAAGAGAGTACAGCAGACTCATAGATTACTGCAACAGTTCCTCCCTGCACTGGA	2796
QY	1081	AAAGTTTCTTGCCTGGCTTACAGAAGCTGAACAACTGCCAATGCTCTACAGAGTGTAC	1140
Db	2797	AAAGTTTCTTGCCTGGCTTACAGAAGCTGAACAACTGCCAATGCTCTACAGAGTGTAC	2856
QY	1141	CCGTAAAGAAAGGCTTCTAGAGACTCCAAAGGAGTAAAGAGCTGATGAACAATGGCA	1200
Db	2857	CCGTAAAGAAAGGCTTCTAGAGACTCCAAAGGAGTAAAGAGCTGATGAACAATGGCA	2916
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Db	2917	AGACCTCCAAAGTGAATTTGAAGCTCACACAGATGTTTATCACAACTGATGAAGACAG	2976
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Db	2977	CCAAAAATPCCTGAGATCCCTGGAAGTTCCTGATGATGATGATGATGATGATGATGAT	3036
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Db	3037	GGATACATGAACCTTCAAGTGGAGTGAACCTTCGAAAAAGTCTCTCAACATTAGTCCCA	3096
QY	1381	TTTGGAGCCAGTCTGACACAGTGGAGCGTCTGACCTTTCTCTGACAGAACTTCTGCT	1440
Db	3097	TTTGGAGCCAGTCTGACACAGTGGAGCGTCTGACCTTTCTCTGACAGAACTTCTGCT	3156
QY	1441	GTGGCTTACAGCTGAAAGATGATGAATTAAGCCGGCAGACCTATTGGAGGACATTC	1500
Db	3157	GTGGCTTACAGCTGAAAGATGATGAATTAAGCCGGCAGACCTATTGGAGGACATTC	3216
QY	1501	AGCAGTTTCAAGACAGACACGATGTACATAGGGCTTCAAGAGGGAATTTAAACTAAAGA	1560
Db	3217	AGCAGTTTCAAGACAGACACGATGTACATAGGGCTTCAAGAGGGAATTTAAACTAAAGA	3276
QY	1561	ACCTGTAAATCATGAGTACTCTTGAGACTGTACGATATTTCTGACAGAGAGCCCTTGA	1620
Db	3277	ACCTGTAAATCATGAGTACTCTTGAGACTGTACGATATTTCTGACAGAGAGCCCTTGA	3336
QY	1621	AGACCTAGAGAAACCTTACCAGGAGCCAGAGAGTGCCTCTGAGGAGAGAGCCAGAA	1680
Db	3337	AGACCTAGAGAAACCTTACCAGGAGCCAGAGAGTGCCTCTGAGGAGAGAGCCAGAA	3396
QY	1681	TGTCCTCGGCTTCTACGAAAGAGAGCTGAGAGGTCAATACTGAGTGGGAAAAATTGAA	1740
Db	3397	TGTCCTCGGCTTCTACGAAAGAGAGCTGAGAGGTCAATACTGAGTGGGAAAAATTGAA	3456
QY	1741	CCTGCACTCCGCTGAGTGGCAGAGAAAATAGATGAGACCTTGAAGACTCCAGAACT	1800
Db	3457	CCTGCACTCCGCTGAGTGGCAGAGAAAATAGATGAGACCTTGAAGACTCCAGAACT	3516
QY	1801	TCAGAGGCGCAGGATGAGCTGGACCTCAAGCTGGCCAAAGCTGAGTGTCAAGGATC	1860
Db	3517	TCAGAGGCGCAGGATGAGCTGGACCTCAAGCTGGCCAAAGCTGAGTGTCAAGGATC	3576
QY	1861	CTGGCAGCCCGTGGCGATCTCTCATTTGATCTCTTCCAAAGATCACCTCCAGAAAGTCAA	1920
Db	3577	CTGGCAGCCCGTGGCGATCTCTCATTTGATCTCTTCCAAAGATCACCTCCAGAAAGTCAA	3636
QY	1921	GGCAGTTCCAGGAGAAATTTGGCCTCTGAAAGAGACGTGAGGCCACGCTCAATGACCTTC	1980
Db	3637	GGCAGTTCCAGGAGAAATTTGGCCTCTGAAAGAGACGTGAGGCCACGCTCAATGACCTTC	3696
QY	1981	TCGCCAGCTTACCACTTTGGGCATTTAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGA	2040
Db	3697	TCGCCAGCTTACCACTTTGGGCATTTAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGA	3756
QY	2041	C 2041	
Db	3757	C 3757	

RESULT 3

US-09-845-416-6

; Sequence 6, Application US/09845416

; Publication No. US20030171312A1

; GENERAL INFORMATION:

; APPLICANT: XIAO, XIAO

; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE

; TITLE OF INVENTION: THEREOF

; FILE REFERENCE: DEL142

; CURRENT APPLICATION NUMBER: US/09/845,416

; PRIOR FILING DATE: 2001-04-30

; PRIOR APPLICATION NUMBER: 60/200,777

; PRIOR FILING DATE: 2000-04-28

; NUMBER OF SEQ ID NOS: 36

; SOFTWARE: PatentIn ver. 2.1

; SEQ ID NO 6

; LENGTH: 3999

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-845-416-6

Query Match

Best Local Similarity 74.5%; Score 1519.8; DB 12; Length 3999;

Matches 1786; Conservative 0; Mismatches 72; Indels 183; Gaps 4;

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QY 1 TCCTTCACAGCATTCGAGCTCTGAGACAGTCAATTTGGCAGTTCATTGATGGAGAG 60
Db 960 TCCCTCACAGCATTTGGAAGCTCCGTAAGACAGTCAATTTGGCAGTTCATTGATGGAGAG 1019
QY 61 TGAAGTAAACCTGACCGTTATCAAAACAGCTTTAGAGAAGTATTATGCTGGCTTCCTTC 120
Db 1020 TGAAGTAAACCTGACCGTTATCAAAACAGCTTTAGAGAAGTATTATGCTGGCTTCCTTC 1079
QY 121 TCGTGAAGACACATTCGACAGACAGGAGAGATTTCTAATGATGGAGTGGTGAAGA 180
Db 1080 TCGTGAAGACACATTCGACAGACAGGAGAGATTTCTAATGATGGAGTGGTGAAGA 1139
QY 181 CCACTTTTCATCTCATGAGGGGTACATGATGATTTGACAGCCCATCAGGCGCGGTTGG 240
Db 1140 CCACTTTTCATCTCATGAGGGGTACATGATGATTTGACAGCCCATCAGGCGCGGTTGG 1199
QY 241 TAAATATCTCAATTTGGGAAGTAACTGATTTGGAACAGGAAATATATCAGAAGATGAAGA 300
Db 1200 TAAATATCTCAATTTGGGAAGTAACTGATTTGGAACAGGAAATATATCAGAAGATGAAGA 1259
QY 301 AACTGAAGTACAGACAGATGAATCTCTTAATTCAGATGGGAATGCCTCAGGTTAGC 360
Db 1260 AACTGAAGTACAGACAGATGAATCTCTTAATTCAGATGGGAATGCCTCAGGTTAGC 1319
QY 361 TAGCATGGAAGAAACAAAGCAATTTACATAGAGTTTAAATGATCTCCAGAACTCAGAACT 420
Db 1320 TAGCATGGAAGAAACAAAGCAATTTACATAGAGTTTAAATGATCTCCAGAACTCAGAACT 1379
QY 421 GAAGAGTTGAATGCTGCTTAACAAAACAGAAAGAAAGAACAGAAATATGGAGGAGA 480
Db 1380 GAAGAGTTGAATGCTGCTTAACAAAACAGAAAGAAAGAACAGAAATATGGAGGAGA 1439
QY 481 CCTCTTGGACCTGATCTTGAAGACCTTAAAGCGCCAGTACACACATATAGGTGCTTCA 540
Db 1440 CCTCTTGGACCTGATCTTGAAGACCTTAAAGCGCCAGTACACACATATAGGTGCTTCA 1499
QY 541 AGAAGATCTAGAACAAGCAAGTCAAGGTCAATTTCTCACTACATGATGGTGGTGGTAGT 600
Db 1500 AGAAGATCTAGAACAAGCAAGTCAAGGTCAATTTCTCACTACATGATGGTGGTGGTAGT 1559
QY 601 TGATGAATCTAGTGGAGATCAGCAACTGCTGCTTTTGGAAAGAACAACTTAAAGTATTTGG 660
Db 1560 TGATGAATCTAGTGGAGATCAGCAACTGCTGCTTTTGGAAAGAACAACTTAAAGTATTTGG 1619
QY 661 AGATCGATGGGCAACATCTGTAGATGGACAGAGACCGCTGGGTTCTTTTACAGACAT 720
Db 1620 AGATCGATGGGCAACATCTGTAGATGGACAGAGACCGCTGGGTTCTTTTACAGACCA 1679
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QY 901 GGCAGAACTGTATTCACTCACAAGATCTTCTTCAACACTGAAGATAGTCAGTGAC 960
Db 1678 ----- 1677
QY 961 CCAGAGACGGAAGCATGGCTGGATAAATTGGCGGTGTTGGGATATTTAGTCCAAA 1020
Db 1678 ----- 1677
QY 1021 ACTTGAAAGAGTACAGCAGACATCATAGTACGCAACAGTTCCCTCCCTGGACCTGGA 1080
Db 1678 -----ACTCATAGTTACTGCAACAGATTTCCCTCCCTGGACCTGGA 1715
QY 1081 AAAGTTCTTCTGCTGCTTACAGAGCTGAAACAACTGCCAATGCTCCACAGGATGTAC 1140
Db 1716 AAAGTTCTTCTGCTGCTTACAGAGCTGAAACAACTGCCAATGCTCCACAGGATGTAC 1775
QY 1141 CCGTAGGAAAGCTCCTTAGAGACTCCAGAGGAGTAAAGAGCTGTATGAACAAAGGCA 1200
Db 1776 CCGTAGGAAAGCTCCTTAGAGACTCCAGAGGAGTAAAGAGCTGTATGAACAAAGGCA 1835
QY 1201 AGACCTCCAGGTGAAATTTAGAGCTCACAGATGTTTATCACACCTGGATGAACAG 1260
Db 1836 AGACCTCCAGGTGAAATTTAGAGCTCACAGATGTTTATCACACCTGGATGAACAG 1895
QY 1261 CCAAAAATCCTGAGATCCCTGGAAGTTCCGATGATGAGTCTGTTTACAAAACAGCTT 1320
Db 1896 CCAAAAATCCTGAGATCCCTGGAAGTTCCGATGATGAGTCTGTTTACAAAACAGCTT 1955
QY 1321 GATAAATCAATCAAGTGGAGTGAATTCGGAAGAAAGTCTCTCAACATTAGTCCCA 1380
Db 1956 GATAAATCAATCAAGTGGAGTGAATTCGGAAGAAAGTCTCTCAACATTAGTCCCA 2015
QY 1381 TTGAGAGCAGTCTGACAGTGAAGCTCTGCACCTTCTCTCGAGGACCTTCGT 1440
Db 2016 TTGAGAGCAGTCTGACAGTGAAGCTCTGCACCTTCTCTCGAGGACCTTCGT 2075
QY 1441 GTGGCTACAGTGAAGATGATGAATTAAGCCGCGAGCAGCTATTTGGAGCGCAGTTCC 1500
Db 2076 GTGGCTACAGTGAAGATGATGAATTAAGCCGCGAGCAGCTATTTGGAGCGCAGTTCC 2135
QY 1501 AGCAGTTACAGACAGACATGTACATAGGCGCTTCAAGAGGAAATTTGAACAAAGA 1560
Db 2136 AGCAGTTACAGACAGACATGTACATAGGCGCTTCAAGAGGAAATTTGAACAAAGA 2195
QY 1561 ACCTGTATCATAGTACTCTTGACACTGTACGATATTTCTGACAGAGCAGCTTTGGA 1620
Db 2196 ACCTGTATCATAGTACTCTTGACACTGTACGATATTTCTGACAGAGCAGCTTTGGA 2255
QY 1621 AGGACTAGAGAACTCTACAGAGCCAGAGAGCTCCCTCTGAGGAGAGAGCCAGAA 1680
Db 2256 AGGACTAGAGAACTCTACAGAGCCAGAGAGCTCCCTCTGAGGAGAGAGCCAGAA 2315
QY 1681 TGTACTCGGTTCTAGAAACAGAGCTGAGAGGTCAATACTAGTGGGAAATTTGAA 1740
Db 2316 TGTACTCGGTTCTAGAAACAGAGCTGAGAGGTCAATACTAGTGGGAAATTTGAA 2375
QY 1741 CCTGCACTCCGCTGACTGGCAGAGAAATAGATGAGACCTTTGAAAGACTCCAGAACT 1800
Db 2376 CCTGCACTCCGCTGACTGGCAGAGAAATAGATGAGACCTTTGAAAGACTCCAGAACT 2435
QY 1801 TCAAGAGCCACGAGTGTGAGCTCAAGCTCGCCCAAGCTGAGGTGATCAAGGATC 1860
Db 2436 TCAAGAGCCACGAGTGTGAGCTCAAGCTCGCCCAAGCTGAGGTGATCAAGGATC 2495
QY 1861 CTGGAGCCCTGGGGGATCTGCTATTGACTCTCTCCAAGATCACTCTGAGAAAGTCAA 1920
Db 2496 CTGGAGCCCTGGGGGATCTGCTATTGACTCTCTCCAAGATCACTCTGAGAAAGTCAA 2555
QY 1921 GCACTCTGGAGGAAATTTCCGCTCTGAAGAGAGCTGAGCCAGCTCAATGACCTTGC 1980
Db 2556 GCACTCTGGAGGAAATTTCCGCTCTGAAGAGAGCTGAGCCAGCTCAATGACCTTGC 2615
QY 1981 TCGCCAGCTTACCAGTTTGGGATTCAGCTCTCAGCTATTAACCTCAGCACTCTGGAAGA 2040

Db 2616 TCGCCAGCTTACCAGTTTGGCATTGAGCTCTCACGTTATACCTCAGCACTCTGGAGA 2675
QY 2041 C 2041
Db 2676 C 2676
RESULT 7
US-09-845-416-29
; Sequence 29, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845.416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 29
; LENGTH: 4825
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-845-416-29
Query Match 67.8%; Score 1383; DB 12; Length 4825;
Best Local Similarity 84.1%; Pred. No. 0;
Matches 1717; Conservative 0; Mismatches 0; Indels 324; Gaps 1;
QY 1 TCCTTCACACATTTGGAGCTCCTGAGACAGTCAATTTGGCAGTTCATTGATGGAGAG 60
Db 1717 TCCTTCACACATTTGGAGCTCCTGAGACAGTCAATTTGGCAGTTCATTGATGGAGAG 1776
QY 61 TGAAGTAAACCTGACCGCTTATCAACAGCTTTAGAGAAATTTATCGTGGCTTCTTTC 120
Db 1777 TGAAGTAAACCTGACCGCTTATCAACAGCTTTAGAGAAATTTATCGTGGCTTCTTTC 1836
QY 121 TGCTGAGACACATTCACAGACAGAGAGATTTCTTAATGATGGAGAGTGGTGAAGA 180
Db 1837 TGCTGAGACACATTCACAGACAGAGAGATTTCTTAATGATGGAGAGTGGTGAAGA 1896
QY 181 CCAGTTTCATCTCATGAGGGGTACATGATGATTTGACAGCCCATCAGGCCGGGTGG 240
Db 1897 CCAGTTTCATCTCATGAGGGGTACATGATGATTTGACAGCCCATCAGGCCGGGTGG 1956
QY 241 TAATATTCTACAATTGGGAAGTAAGCTGATTGGAACAGGAAATTTATCAGAAAGATGA 300
Db 1957 TAATATTCTACAATTGGGAAGTAAGCTGATTGGAACAGGAAATTTATCAGAAAGATGA 2016
QY 301 AACTGAAGTACACAGACAGATGAATCTCCTAAATCAAGATGGGAATGCCTCAGGATG 360
Db 2017 AACTGAAGTACACAGACAGATGAATCTCCTAAATCAAGATGGGAATGCCTCAGGATG 2076
QY 361 TAGCATGAAACAAAGCAATTTACATAGAGTTTTAATGGATCTCCAGATCAGAACT 420
Db 2077 TAGCATGAAACAAAGCAATTTACATAGAGTTTTAATGGATCTCCAGATCAGAACT 2136
QY 421 GAAAGAGTTGAATGACTGGCTTAACAAAACAGAAAGAAACAAAGAAATTTGGAGGA 480
Db 2137 GAAAGAGTTGAATGACTGGCTTAACAAAACAGAAAGAAACAAAGAAATTTGGAGGA 2196
QY 481 GCCTTTGGACCTGATCTTTGAAGACCTAAACGCCAAGTACAAACATAAGGTGCTTCA 540
Db 2197 GCCTTTGGACCTGATCTTTGAAGACCTAAACGCCAAGTACAAACATAAGGTGCTTCA 2256
QY 541 AGAGATCTAGACACAGACAGTCAAGGTCAATTTCTCTCACTCACTGCTGCTGAGT 600
Db 2257 AGAGATCTAGACACAGACAGTCAAGGTCAATTTCTCTCACTCACTGCTGCTGAGT 2316

QY	601	TGATGAATCTAGTGGAGATCACCAACTGCTGCTTTGGAGAACAACTTAAGTATTGGG	560
Db	2317	TGATGAATCTAGTGGAGATCACCAACTGCTGCTTTGGAGAACAACTTAAGTATTGGG	2376
QY	661	AGATCATGGGCAACACATCTGTAGATGGACAGAGACCGCTGGTTCCTTTACAGACAT	720
Db	2377	AGATCATGGGCAACACATCTGTAGATGGACAGAGACCGCTGGTTCCTTTACAGAC--	2434
QY	721	CCTTCTCAAAATGGCAAGCTCTTACTTACGAAGAACAGTGCCTTTTGTGTCATGGCTTCAGA	780
Db	2435	-----	2434
QY	781	AAAGAAGATGACGTGAACAAAGATTCACACAACTGGCTTTAAAGATCAAAATGAATGTT	840
Db	2435	-----	2434
QY	841	ATCAAGTCTTCAAAACTGGCCGTTTTTAAGCCGGATCTAGAAAAGAAAAGCAATCCAT	900
Db	2435	-----	2433
QY	901	GGCAAACTGTATTCACTCAAAACAAGATCTTCTTCAACACTGAGAATAAAGTCAGTGAC	960
Db	2435	-----	2434
QY	961	CCAGAAGACGGAAAGCATGGCTGGATTAACCTTCCCGGTGTGGGATAATTTAGTCCAAA	1020
Db	2435	-----	2434
QY	1021	ACTTGAAGAGACTACAGACAGACTCATAGATTACTGCAACAGTCCCCCTGGACCTGGA	1080
Db	2435	-----	2433
QY	1081	AAAGTTCTTGGCTTACAGAAGCTGAAACAACTGCCAATGTCTCTACAGAGTGTAC	1140
Db	2473	AAAGTTCTTGGCTTACAGAAGCTGAAACAACTGCCAATGTCTCTACAGAGTGTAC	2532
QY	1141	CCGTAGGAAAGGCTCTTAGAAGACTCCAAAGGAGTAAAGAGCTGATGAACAATGGCA	1200
Db	2533	CCGTAGGAAAGGCTCTTAGAAGACTCCAAAGGAGTAAAGAGCTGATGAACAATGGCA	2592
QY	1201	AGACCTCAAGCTGAAATGGAAGTCAACACATGTTTATCAACAACCTGGATGAAAACAG	1260
Db	2593	AGACCTCAAGCTGAAATGGAAGTCAACACATGTTTATCAACAACCTGGATGAAAACAG	2652
QY	1261	CCAAAAAATCCTGAGATCCCTGGAAGGTTCCGATGATGCACTCTCTTACAAAGACGTTT	1320
Db	2653	CCAAAAAATCCTGAGATCCCTGGAAGGTTCCGATGATGCACTCTCTTACAAAGACGTTT	2712
QY	1321	GGATACATGAACCTCAAGTGGAGTGAATTCGGAAAAAGTCTCTCAACATTTAGTGCCA	1380
Db	2713	GGATACATGAACCTCAAGTGGAGTGAATTCGGAAAAAGTCTCTCAACATTTAGTGCCA	2772
QY	1381	TTTGGAGCCAGTCTGACCACTGGAAGCTCTGCACTTCTCTGCAAGAACTCTCTGGT	1440
Db	2773	TTTGGAGCCAGTCTGACCACTGGAAGCTCTGCACTTCTCTGCAAGAACTCTCTGGT	2832
QY	1441	GTGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGCACCTATTGGAGGCGACTTTCC	1500
Db	2833	GTGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGCACCTATTGGAGGCGACTTTCC	2892
QY	1501	AGCAGTTACAGACAGACATGTACATAGGCGCTTCAAGAGGGAATTTGAACATTAAGA	1560
Db	2893	AGCAGTTACAGACAGACATGTACATAGGCGCTTCAAGAGGGAATTTGAACATTAAGA	2952
QY	1561	ACCTGTAATCATGACTCTTGTAGACTGTACGAATATTTCTGCACAGACAGCCTTTGGA	1620
Db	2953	ACCTGTAATCATGACTCTTGTAGACTGTACGAATATTTCTGCACAGACAGCCTTTGGA	3012
QY	1621	AGGACTAGAGAAACTCTACAGAGCCCGACAGAGTGTGCTCCTGAGGAGAGAGCCGAGAA	1680
Db	3013	AGGACTAGAGAAACTCTACAGAGCCCGACAGAGTGTGCTCCTGAGGAGAGAGCCGAGAA	3072
QY	1681	TGTCACCTCGGCTTCTACGAAAGAGGCTGAGAGGTCAATACTGAGTGGGAAAAATTGA	1740

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RESULT 8
US-09-845-416-35
; Sequence 35, Application US/09845416
; Publication No. US20030171312A1
; GENEAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
; LENGTH: 4848
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-35

Query Match 67.8%; Score 1383; DB 12; Length 4848;
Best Local Similarity 84.1%; Pred. No. 0;
Matches 1717; Conservative 0; Mismatches 0; Indels 324; Gaps 1;

QY 1 TCGTTCACAGCATTTGGGAAGCTCTGGAAGCAACAGTCATTGGCAGTCATTGGCAGTCATTGATGGAGAG 60
DB 1740 TCGTTCACAGCATTTGGGAAGCTCTGGAAGCAACAGTCATTGGCAGTCATTGGCAGTCATTGATGGAGAG 1799
QY 61 TGAAGTAAACCTGCAGCCGTTATCAACACAGCTTTAGAAGAAGTATATATCGTGGCTTCCTTTC 120
DB 1800 TGAAGTAAACCTGCAGCCGTTATCAACACAGCTTTAGAAGAAGTATATATCGTGGCTTCCTTTC 1859
QY 121 TCGTGGAGACACATTGCAAGCACAAAGAGAGATTTCTTAATGATGGGAAGTGGTGAAGA 180
DB 1860 TCGTGGAGACACATTGCAAGCACAAAGAGAGATTTCTTAATGATGGGAAGTGGTGAAGA 1919
QY 181 CCAAGTTTCATCATGATGAGGGGTACATGATGGATTTGACACCCCAATCAGGCCCGCGGTTGG 240
DB 1920 CCAAGTTTCATCATGATGAGGGGTACATGATGGATTTGACACCCCAATCAGGCCCGCGGTTGG 1979
QY 241 TAAATATCTACAATTGGGAGCTAGCCTGATTGGAACAGAGAAAATATATCAAGAGATGAAGA 300
DB 1980 TAAATATCTACAATTGGGAGCTAGCCTGATTGGAACAGAGAAAATATATCAAGAGATGAAGA 2039

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QY 301 AACTGAAGTACAGAGCAGATGATCTCCTAAATTAAGATGGGAATGCTCAGGTAGC 360
Db 2040 AACTGAAGTACAGAGCAGATGATCTCCTAAATTAAGATGGGAATGCTCAGGTAGC 2099
QY 361 TAGCATGGAAGAAACAAAGCAATTTACATAGATTTTAATGATCTCCAGAAATCAGAACT 420
Db 2100 TAGCATGGAAGAAACAAAGCAATTTACATAGATTTTAATGATCTCCAGAAATCAGAACT 2159
QY 421 GAAAGATGGAATGATGCTGGCTTAACAAAGACAGAGAAAGAACAGAAAGAAAGGAGAGAA 480
Db 2160 GAAAGATGGAATGATGCTGGCTTAACAAAGACAGAGAAAGAACAGAAAGAAAGGAGAGAA 2219
QY 481 GCCTCTTGACCTGATCTTGAAGACCTTAAAGCCAACTACAAACAAATTAAGTGTCTCA 540
Db 2220 GCCTCTTGACCTGATCTTGAAGACCTTAAAGCCAACTACAAACAAATTAAGTGTCTCA 2279
QY 541 AGAAGATCTAGAAACAAAGTCAAGGTCAATTCCTCACTCACATGGTGGTGTAGT 600
Db 2280 AGAAGATCTAGAAACAAAGTCAAGGTCAATTCCTCACTCACATGGTGGTGTAGT 2339
QY 601 TGATGAATCTAGTGAGATACGCAACTGCTGTTTGAAGAACAACTTAAGTATTTGG 660
Db 2340 TGATGAATCTAGTGAGATACGCAACTGCTGTTTGAAGAACAACTTAAGTATTTGG 2399
QY 661 AGATCATGGCCAAACATCTGTAGATGGACAGACCGCTGGTCTTTTACAAGACAT 720
Db 2400 AGATCATGGCCAAACATCTGTAGATGGACAGACCGCTGGTCTTTTACAAGACAT 2457
QY 721 CTTCTCAAAATGGCAAGCTCTTACTGAAGAACAGTGCCTTTTGTAGTCATGGCTTTTCA 780
Db 2458 ----- 2457
QY 781 AAAAGAGATGAGTGAACAGATTCACACACTGGCTTTAAAGATCAAAATGAATGTT 840
Db 2458 ----- 2457
QY 841 ATCAAGTCTTCAAAATGCGCGCTTTTAAAGCGGATCTAGAAAAGAAAAGCAATCCAT 900
Db 2458 ----- 2457
QY 901 GGGCAAACTGTATTCATCAACAAAGATCTTCTTCAACTGAAGAATAAGTCACTGAC 960
Db 2458 ----- 2457
QY 961 CCAGAGACGGAGCATGGCTGGATACCTTTCGCCGCTGTTGGGATATTTAGTCCAAA 1020
Db 2458 ----- 2457
QY 1021 ACTTGAAGAGTACAGACACAGACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGA 1080
Db 2458 -----ACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGA 2495
QY 1081 AAGTTTCTTGCTGGCTTACAGAGCTGAAACAACTGCCAATGTCTCTACAGGATGCTAC 1140
Db 2496 AAGTTTCTTGCTGGCTTACAGAGCTGAAACAACTGCCAATGTCTCTACAGGATGCTAC 2555
QY 1141 CCTAGAGAAAGGCTCTAGAGACTCCAGAGGAGTAAAGAGCTGTATGAACAAATGGCA 1200
Db 2556 CCSTAGAGAAAGGCTCTAGAGACTCCAGAGGAGTAAAGAGCTGTATGAACAAATGGCA 2615
QY 1201 AGACCTCCAAAGTGAATTAAGCTCACAGATGTTTATCACAACTGGATGAAAACAG 1260
Db 2616 AGACCTCCAAAGTGAATTAAGCTCACAGATGTTTATCACAACTGGATGAAAACAG 2675
QY 1261 CCAAAAATCTGAGATCCCTGGAGGTTCCGATGATGCGAGTCTCTGTATCAAAAGAGCTTT 1320
Db 2676 CCAAAAATCTGAGATCCCTGGAGGTTCCGATGATGCGAGTCTCTGTATCAAAAGAGCTTT 2735
QY 1321 GGATACATGACTTCAAGTGGAGTGAATCTCGGAAAAGTCTCTCAACATTAAGTCCCA 1380
Db 2736 GGATACATGACTTCAAGTGGAGTGAATCTCGGAAAAGTCTCTCAACATTAAGTCCCA 2795
QY 1381 TTTGGAAGCCAGTCTGACAGTGAAGCGCTCTGCACCTTCTCTGCGAGGAATCTTCTGTT 1440

Db 2796 TTTGAGAGCCAGTCTGACAGTGGAGCGTCTGCACTTTCTCTGAGGAATCTTCTGTT 2855
QY 1441 GTGGCTACAGCTGAAAGATGATGAATTAAGCCGCGAGGACCTATTTGAGGCGACTTTCC 1500
Db 2856 GTGGCTACAGCTGAAAGATGATGAATTAAGCCGCGAGGACCTATTTGAGGCGACTTTCC 2915
QY 1501 AGCAGTTTCAAGAGCAGAACCATGTACATAGGGGCTTCAAGAGGGAATTTGAAACTTAAGA 1560
Db 2916 AGCAGTTTCAAGAGCAGAACCATGTACATAGGGGCTTCAAGAGGGAATTTGAAACTTAAGA 2975
QY 1561 ACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCTTTTGA 1620
Db 2976 ACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCTTTTGA 3035
QY 1621 AGGACTTAGAGAACTCTTACCAGGAGCCAGAGAGCTGCTCTCTGAGGAGAGAGCCAGAA 1680
Db 3036 AGGACTTAGAGAACTCTTACCAGGAGCCAGAGAGCTGCTCTCTGAGGAGAGAGCCAGAA 3095
QY 1681 TGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACTGAGTGGGAAAATTTGAA 1740
Db 3096 TGTCACTCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACTGAGTGGGAAAATTTGAA 3155
QY 1741 CTTGCTCACTCGGCTGAGTGGCAGAGAAAATAGATGAGACCTTGAAGAATCTCCAGGAAT 1800
Db 3156 CTTGCTCACTCGGCTGAGTGGCAGAGAAAATAGATGAGACCTTGAAGAATCTCCAGGAAT 3215
QY 1801 TCAAGAGGCCAGGATGAGTGGACCTCAAGCTGAGTGGCGCAAGCTGAGTGTATCAAGGATC 1860
Db 3216 TCAAGAGGCCAGGATGAGTGGACCTCAAGCTGAGTGGCGCAAGCTGAGTGTATCAAGGATC 3275
QY 1861 CTGGCAGCCGCTGGCGGATCTCTCATGACTCTCTCCAGATCACTCCGAGAAATGCAA 1920
Db 3276 CTGGCAGCCGCTGGCGGATCTCTCATGACTCTCTCCAGATCACTCCGAGAAATGCAA 3335
QY 1921 GGCACCTTCAGAGAGAAATTTGGCCTCTGAAAGAGACCTGAGCCACGTCATGACCTTGC 1980
Db 3336 GGCACCTTCAGAGAGAAATTTGGCCTCTGAAAGAGACCTGAGCCACGTCATGACCTTGC 3395
QY 1981 TCGCCAGCTTACACTTTGGCCTTGGCCTTGGCCTTGGCCTTGGCCTTGGCCTTGGCCTT 2040
Db 3396 TCGCCAGCTTACACTTTGGCCTTGGCCTTGGCCTTGGCCTTGGCCTTGGCCTTGGCCTT 3455
QY 2041 C 2041
Db 3456 C 3456

RESULT 9
US-09-845-416-36
; Sequence 36, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DEL1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 36
; LENGTH: 5060
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-36

Query Match 67.8%; Score 1383; DB 12; Length 5060;
Best Local Similarity 84.1%; Pred. No. 0;
Matches 1717; Conservative 0; Mismatches 0; Indels 324; Gaps 1;

QY 1 TCCTTCACAGATTGGAGCTCCTGAGACAGAGTCATTGGCAGTTCTATTGATGGAGAG 60
Db 1952 TCCTTCACAGATTGGAGCTCCTGAGACAGAGTCATTGGCAGTTCTATTGATGGAGAG 2011
QY 61 TGAAGTAAACCTGGACCGTTTATCAACAGCTTTAGAGAGAGTATTATCGTGCTTCTTTC 120
Db 2012 TGAAGTAAACCTGGACCGTTTATCAACAGCTTTAGAGAGAGTATTATCGTGCTTCTTTC 2071
QY 121 TCCTGAGGACACATTCGACGACCAAGGAGAGATTCTTAATGATGTGGAAGTGGTGAAGA 180
Db 2072 TCCTGAGGACACATTCGACGACCAAGGAGAGATTCTTAATGATGTGGAAGTGGTGAAGA 2131
QY 181 CCAGTTTCATCTACATGAGGGGTACATGATGGATTGACAGCCCATCAGGCGCGGGTGG 240
Db 2132 CCAGTTTCATCTACATGAGGGGTACATGATGGATTGACAGCCCATCAGGCGCGGGTGG 2191
QY 241 TTAATATTCTAATTTGGAAGTAAAGCTGATTGGAACAGGAAATTTATCAGAAGATCAAGA 300
Db 2192 TTAATATTCTAATTTGGAAGTAAAGCTGATTGGAACAGGAAATTTATCAGAAGATCAAGA 2251
QY 301 AACTGAATGACAGAGCAGATGAATCTCTAAATTCAGATGGGAATGCTCAGGGTAGC 360
Db 2252 AACTGAATGACAGAGCAGATGAATCTCTAAATTCAGATGGGAATGCTCAGGGTAGC 2311
QY 361 TAGCATGAAAACAAAGCAATTTACATAGAGTTTAAATGGATCTCCGAATCAGAACT 420
Db 2312 TAGCATGAAAACAAAGCAATTTACATAGAGTTTAAATGGATCTCCGAATCAGAACT 2371
QY 421 GAAAGAGTTGAATGACTGGCTTAACAAAACAGAGAAAGAACAGGAAATGGAGGAAGA 480
Db 2372 GAAAGAGTTGAATGACTGGCTTAACAAAACAGAGAAAGAACAGGAAATGGAGGAAGA 2431
QY 481 GCCTCTGGACCTGATCTTGAGACCTAAAGCCGAGTACAAACATAAGTGCCTCA 540
Db 2432 GCCTCTGGACCTGATCTTGAGACCTAAAGCCGAGTACAAACATAAGTGCCTCA 2491
QY 541 AGAAGATCTAGAACAGAACAGTCAAGGTCAATCTCTACATCAATGGTGGTGGTAGT 600
Db 2492 AGAAGATCTAGAACAGAACAGTCAAGGTCAATCTCTACATCAATGGTGGTGGTAGT 2551
QY 601 TGATGAATCTAGTGAGATCAAGCACTGCTGCTTTGGAAGCAACACTTAAGTATTGGG 660
Db 2552 TGATGAATCTAGTGAGATCAAGCACTGCTGCTTTGGAAGCAACACTTAAGTATTGGG 2611
QY 661 AGATCGATGGCAACATCTGTAGATGGACAGAGACCGCTGGGTCTTTTACAAGACAT 720
Db 2612 AGATCGATGGCAACATCTGTAGATGGACAGAGACCGCTGGGTCTTTTACAAGAC - 2669
QY 721 CCTTCTCAATGGCAAGCTCTTACTGAAGACAGTGCCTTTTAGTGCATGGCTTCAGA 780
Db 2670 ----- 2669
QY 781 AAAAGAGATGCACTGAACAGATTTCACAACTGGCTTTAAAGATCAAAATGAATGT 840
Db 2670 ----- 2669
QY 841 ATCAAGTCTTCAAAACTGCCGCTTTTAAAGCGGATCTAGAAAAGAAAAGCAATCCAT 900
Db 2670 ----- 2669
QY 901 GGGCAACTGTATTCACTCAACAGATCTCTTTCAACACTGAAGATTAAGTCAAGTAC 960
Db 2670 ----- 2669
QY 961 CCAGAAGCGGAAGCATGGCTGGATACTTTGCCGGGTGGTGGGATAATTTAGTCCAAA 1020
Db 2670 ----- 2669
QY 1021 ACTTGAAGAGATGACACAGACACTCATAGATTACTGCAACAGTTCGCCCTGGACCTGGA 1080
Db 2670 ----- ACTCATAGATTACTGCAACAGTTCGCCCTGGACCTGGA 2707
QY 1081 AAAGTTTCTTGCTGGCTTACAGAGCTGAACAACTGCCAAGTCTCTACAGAGTACTAC 1140

Db 2708 AAAGTTTCTTGCTGGCTTACAGAGCTGAACAACTGCCAATGTCTCTACAGAGTACTAC 2767
QY 1141 CCGTAAGGAAAGGCTCCTAGAGACTCCAAAGGAGTAAAGAGCTGATGAACAAATGGCA 1200
Db 2768 CCGTAAGGAAAGGCTCCTAGAGACTCCAAAGGAGTAAAGAGCTGATGAACAAATGGCA 2827
QY 1201 AGACTTCCAAAGGTGAATTTGAAGTCCACAGATTTTATCACAACCTGTGATGAAGACAG 1260
Db 2828 AGACTTCCAAAGGTGAATTTGAAGTCCACAGATTTTATCACAACCTGTGATGAAGACAG 2887
QY 1261 CCAAAATATCTGAGATCCCTGGAAGGTTCCGATGATGATGATGATGATGATGATGATGAT 1320
Db 2888 CCAAAATATCTGAGATCCCTGGAAGGTTCCGATGATGATGATGATGATGATGATGATGAT 2947
QY 1321 GGATAACATGAACCTCAAGTGGAGTGAATTCGGAAAAAGTCTCTCAACATTTAGGTCCCA 1380
Db 2948 GGATAACATGAACCTCAAGTGGAGTGAATTCGGAAAAAGTCTCTCAACATTTAGGTCCCA 3007
QY 1381 TTTGGAGCCAGTTCTGACAGTGGAGGCTGTGCACCTTTCTCTGACAGGACTTCTGTGT 1440
Db 3008 TTTGGAGCCAGTTCTGACAGTGGAGGCTGTGCACCTTTCTCTGACAGGACTTCTGTGT 3067
QY 1441 GTGGCTACAGTGAAGATGATGAATTAAGCCGCGCAGCCTATTGGAGGCGACTTCC 1500
Db 3068 GTGGCTACAGTGAAGATGATGAATTAAGCCGCGCAGCCTATTGGAGGCGACTTCC 3127
QY 1501 AGCAGTTTCAGAGGACAGACGATGTACATAGGCTTCAAGAGGGAATTTGAAATAAGA 1560
Db 3128 AGCAGTTTCAGAGGACAGACGATGTACATAGGCTTCAAGAGGGAATTTGAAATAAGA 3187
QY 1561 AACTGTAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1620
Db 3188 AACTGTAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 3247
QY 1621 AGGACTTAGAGAACTCTACAGAGGCGCCAGAGCTGCTCTCTGACAGAGAGCCAGAA 1680
Db 3248 AGGACTTAGAGAACTCTACAGAGGCGCCAGAGCTGCTCTCTGACAGAGAGCCAGAA 3307
QY 1681 TGTCACCTCGGCTTTACGAAAGCAGGCTGAGGAGTCAATACTAGTGGGAAAAATTGAA 1740
Db 3308 TGTCACCTCGGCTTTACGAAAGCAGGCTGAGGAGTCAATACTAGTGGGAAAAATTGAA 3367
QY 1741 CTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTTGAAAGACTCCAGGAAT 1800
Db 3368 CTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTTGAAAGACTCCAGGAAT 3427
QY 1801 TCAAGAGCCCGGATGAGTGGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCT 1860
Db 3428 TCAAGAGCCCGGATGAGTGGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCTGAGCT 3487
QY 1861 CTGGCAGCCCGTGGGCGATCTCTCTCAATGACTCTCTCCAAAGATCACCTCGAGAAAGTCAA 1920
Db 3488 CTGGCAGCCCGTGGGCGATCTCTCTCAATGACTCTCTCCAAAGATCACCTCGAGAAAGTCAA 3547
QY 1921 GGCACCTTCAGAGAGAAATGCGCTCTGAAAGAGAACTGAGCCACCTCAATGACCTTGC 1980
Db 3548 GGCACCTTCAGAGAGAAATGCGCTCTGAAAGAGAACTGAGCCACCTCAATGACCTTGC 3607
QY 1981 TCCCGCAGCTTACCATTGGGCAATTCAGCTCTCAGCTCTCAGCTCTCAGCTCTCAGCTCTCAGCT 2040
Db 3608 TCCCGCAGCTTACCATTGGGCAATTCAGCTCTCAGCTCTCAGCTCTCAGCTCTCAGCTCTCAGCT 3667
QY 2041 C 2041
Db 3668 C 3668

RESULT 10

US-09-845-416-32

; Sequence 32, Application US/09845416

; Publication No. US20030171312A1

; GENERAL INFORMATION:

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/ APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE OF INVENTION: THEREOF
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 32
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-32

Query Match      51.6%; Score 1054; DB 12; Length 4414;
Best Local Similarity 96.8%; Pred. No. 2.1e-294;
Matches 1075; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

QY 1 TCCTTCACACATTTGGAGCTCCCTGAAGACAGTCAATTTGGCAGTTCAATTCATGATGGAGAG 60
DB 1717 TCCTTCACACATTTGGAGCTCCCTGAAGACAGTCAATTTGGCAGTTCAATTCATGATGGAGAG 1776

QY 61 TGAAGTAACTCGACCGCTTATCAAAACAGCTTTAGAGAGTATTATCGTGGCTTCTTTC 120
DB 1777 TGAAGTAACTCGACCGCTTATCAAAACAGCTTTAGAGAGTATTATCGTGGCTTCTTTC 1836

QY 121 TCGTGAGGACACATTCGAAGCACAAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 180
DB 1837 TCGTGAGGACACATTCGAAGCACAAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 1896

QY 181 CCAGTTTCACTCATGAGGGGTACATGATGGATTTGACAGCCCATCAGGCCGGCGGTGG 240
DB 1897 CCAGTTTCACTCATGAGGGGTACATGATGGATTTGACAGCCCATCAGGCCGGCGGTGG 1956

QY 241 TAATATTTCAATTTGGGAAGTAAGCTGATTTGGAACAGGAGAAATATATCAGAAGATGAAGA 300
DB 1957 TAATATTTCAATTTGGGAAGTAAGCTGATTTGGAACAGGAGAAATATATCAGAAGATGAAGA 2016

QY 301 RACTGAGTACAGACATCAATCTCTTAATTCAGATGGGATGCCCTCAGGGTAGC 360
DB 2017 AACTGGAATCAAGACAGATCAATCTCTTAATTCAGATGGGATGCCCTCAGGGTAGC 2076

QY 361 TAGCATGGAATAAACAAGCAATTTACATAGAGTTTAAATGATCTCCAGATTCAGAACT 420
DB 2077 TAGCATGGAATAAACAAGCAATTTACATAGAGTTTAAATGATCTCCAGATTCAGAACT 2136

QY 421 GAAAGAGTGAATGACTGCTTAACAAAACAGAGAGAGAAACAGAGAAATGGAGGAGA 480
DB 2137 GAAAGAGTGAATGACTGCTTAACAAAACAGAGAGAGAAACAGAGAAATGGAGGAGA 2196

QY 481 GCCTTTGGACCTGATCTTGAAGACCTTAAACGCCAAGTACACACATCAAGTGCCTCA 540
DB 2197 GCCTTTGGACCTGATCTTGAAGACCTTAAACGCCAAGTACACACATCAAGTGCCTCA 2256

QY 541 AGAAGATCTAGAACAGAAACAAGTCAGGGTCAATTCCTCACTCAATGGTGGTGGTAGT 600
DB 2257 AGAAGATCTAGAACAGAAACAAGTCAGGGTCAATTCCTCACTCAATGGTGGTGGTAGT 2316

QY 601 TGATGATCTAGTGGAGATCAGCAACTGCTGCTTTGGAAGAACAACTTAAGGTATTGGG 660
DB 2317 TGATGATCTAGTGGAGATCAGCAACTGCTGCTTTGGAAGAACAACTTAAGGTATTGGG 2376

QY 661 AGATCGATGGCAACATCTGTAGATGGACAGAGACCCGCTGGGTTCITTTACAGACAT 720
DB 2377 AGATCGATGGCAACATCTGTAGATGGACAGAGACCCGCTGGGTTCITTTACAGACAT 2436

QY 721 CCTTCTCAATGGCAGCTTCTACTGAAGACAGTGCCTTTTAGTGATGCTGCTTTCAGA 780
DB 2437 CCTTCTCAATGGCAGCTTCTACTGAAGACAGTGCCTTTTAGTGATGCTGCTTTCAGA 2496

QY 781 AAAAGAGATGAGTGAACAAAGATTTCACAACTGGCTTTAAAGATCAATAATGAATGTT 840
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DB 2497 AAAAGAGATGAGTGAACAAAGATTTCACAACTGGCTTTAAAGATCAATAATGAATGTT 2556

QY 841 ATCAAGTCTTCAAAAACACTGGCGTTTTAAAAGCGGATCTAGAAAAGAAAAGCAATCCAT 900
DB 2557 ATCAAGTCTTCAAAAACACTGGCGTTTTAAAAGCGGATCTAGAAAAGAAAAGCAATCCAT 2616

QY 901 GGGCAAACTGATTCACACTCAAAACAGATCTCTTTCACAACTGAAGATAAGTCAAGTGAC 960
DB 2617 GGGCAAACTGATTCACACTCAAAACAGATCTCTTTCACAACTGAAGATAAGTCAAGTGAC 2676

QY 961 CCAGAAGACGGAAGCATGGCTGGATAACTTTGCCCGGTGTTGGGATAATTTAGTCCAAAA 1020
DB 2677 CCAGAAGACGGAAGCATGGCTGGATAACTTTGCCCGGTGTTGGGATAATTTAGTCCAAAA 2736

QY 1021 ACTTGAAGAGATGACAGACAGCTCATAGATTTACTGCAACAGTTCCTCCCTGGACCTGGA 1080
DB 2737 ACTTGAAGAGATGACAGACAGCTTCGAAAGACTCCAGGAACCTTCAAGAGGCCACGGA 2796

QY 1081 AAAGTTTCTTGGCTGCTTACAGAACTGA 1110
DB 2797 TGAGTGGACCTCAAGCTGGCCAAAGCTGA 2826

RESULT 11
US-09-782-378A-22
; Sequence 22, Application US/09782378A
; Patent No. US20020102731A1
; GENERAL INFORMATION:
; APPLICANT: Hearing, Patrick
; APPLICANT: Bahou, Wadie
; APPLICANT: Sandalon, Ziv
; APPLICANT: Gnatenko, Dmitri
; TITLE OF INVENTION: Adenoviral Vectors
; FILE REFERENCE: STONY-04970
; CURRENT APPLICATION NUMBER: US/09/782,378A
; CURRENT FILING DATE: 2001-02-12
; PRIOR APPLICATION NUMBER: 60/237,747
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 22
; LENGTH: 13957
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-782-378A-22

Query Match      51.1%; Score 1043.4; DB 10; Length 13957;
Best Local Similarity 99.9%; Pred. No. 5.4e-291;
Matches 1044; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCTTCACAGATTTGGAGCTCCCTGAAGACAGTCAATTTGGCAGTTCAATTCATGATGGAGAG 60
DB 1159 TCCTTCACAGATTTGGAGCTCCCTGAAGACAGTCAATTTGGCAGTTCAATTCATGATGGAGAG 1218

QY 61 TGAAGTAACTCGACCGCTTATCAAAACAGCTTTTGAAGAAAGTATTATCGTGGCTTCTTTC 120
DB 1219 TGAAGTAACTCGACCGCTTATCAAAACAGCTTTTGAAGAAAGTATTATCGTGGCTTCTTTC 1278

QY 121 TCGTGAGGACACATTCGAAGCACAAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 180
DB 1279 TCGTGAGGACACATTCGAAGCACAAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 1938

QY 181 CCAGTTTCACTCATGAGGGGTACATGATGGATTTGACAGCCCATCAGGCCGGCGGTGG 240
DB 1339 CCAGTTTCACTCATGAGGGGTACATGATGGATTTGACAGCCCATCAGGCCGGCGGTGG 1998

QY 241 TAATATTTCAATTTGGGAAGTAAAGCTGATTTGGAAACAGGAGAAATATCAGAAGATGAAGA 300
DB 1399 TAATATTTCAATTTGGGAAGTAAAGCTGATTTGGAAACAGGAGAAATATCAGAAGATGAAGA 1458

QY 301 AACTGAGTACAGACAGATGAATCTCTTAATTCAGATGGGATGCCCTCAGGGTAGC 360
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Db 1459 AACTGAGTACAGAGCAGATGATCTCTCTATATTCAGATGGGATGCCCTCAGGTAGC 1518
QY 361 TAGCATGGAAACAAACAAATTTACATAGATTTTAAATGGATCTCTCCAGATCAGAACT 420
Db 1519 TAGCATGGAAACAAACAAATTTACATAGATTTTAAATGGATCTCTCCAGATCAGAACT 1578
QY 421 GAAAGAGTGAATGACTGGCTTAACAAACAAACAGAGAAACACAGAGAAATGAGGAGAA 480
Db 1579 GAAAGAGTGAATGACTGGCTTAACAAACAAACAGAGAAACACAGAGAAATGAGGAGAA 1638
QY 481 GCCTCTTGGACCTGATCTTGAAGACCTTAAACCCCAAGTACAAACAAATAGGTGTTCA 540
Db 1639 GCCTCTTGGACCTGATCTTGAAGACCTTAAACCCCAAGTACAAACAAATAGGTGTTCA 1698
QY 541 AGAAGATCTAGAACAGAACAGTCAAGGTCAATCTCTCACTACATGTTGGTGTAGT 600
Db 1699 AGAAGATCTAGAACAGAACAGTCAAGGTCAATCTCTCACTACATGTTGGTGTAGT 1758
QY 601 TGTGATCTAGTGGAGATCAGCAACTGCTGTTGGAGAACAACTTAAGTATTGG 660
Db 1759 TGTGATCTAGTGGAGATCAGCAACTGCTGTTGGAGAACAACTTAAGTATTGG 1818
QY 661 AGATCGATGGCAAACTCTGTAGATGGACAGAGACCGCTGGGTCTTTTACAAGACAT 720
Db 1819 AGATCGATGGCAAACTCTGTAGATGGACAGAGACCGCTGGGTCTTTTACAAGACAT 1878
QY 721 CCTTCTCAATGGCAACGCTCTTACTGAAGAACAGTCCCTTTTATAGTCAAGTTCAGA 780
Db 1879 CCTTCTCAATGGCAACGCTCTTACTGAAGAACAGTCCCTTTTATAGTCAAGTTCAGA 1938
QY 781 AAAAGAGATGAGTGAACAGATTCACACAACTGCTTTAAAGATCAAAATGAATGTT 840
Db 1939 AAAAGAGATGAGTGAACAGATTCACACAACTGCTTTAAAGATCAAAATGAATGTT 1998
QY 841 ATCAAGTCTTCAAAACTGGCGCTTTTAAAGCGGATCTAGAAAAGAAAAGCAATCCAT 900
Db 1999 ATCAAGTCTTCAAAACTGGCGCTTTTAAAGCGGATCTAGAAAAGAAAAGCAATCCAT 2058
QY 901 GGGCAACAGTATCACTCAACAAAGATCTCTTCAACACTGAAGATAAGTCAAGTAC 960
Db 2059 GGGCAACAGTATCACTCAACAAAGATCTCTTCAACACTGAAGATAAGTCAAGTAC 2118
QY 961 CCAGACAGGAGCATGGCTGATTAACCTTGGCCGGTCTGGGATATTTAGTCCAAA 1020
Db 2119 CCAGACAGGAGCATGGCTGATTAACCTTGGCCGGTCTGGGATATTTAGTCCAAA 2178
QY 1021 ACTTGAAGAGTACAGCAGACT 1045
Db 2179 ACTTGAAGAGTACAGCAGACT 2203

RESULT 12

US-09-880-107-2284

; Sequence 2284, Application US/09880107

; Patent No. US20020142981A1

; GENERAL INFORMATION:

; APPLICANT: Horne, Barci T.

; APPLICANT: Vockley, Joseph G.

; APPLICANT: Schert, Uwe

; APPLICANT: Gene Logic, Inc.

; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer

; FILE REFERENCE: 44921-5028-WO

; CURRENT APPLICATION NUMBER: US/09/880,107

; CURRENT FILING DATE: 2001-06-14

; PRIOR APPLICATION NUMBER: US 60/211,379

; PRIOR FILING DATE: 2000-06-14

; PRIOR APPLICATION NUMBER: US 60/237,054

; PRIOR FILING DATE: 2000-10-02

; NUMBER OF SEQ ID NOS: 3950

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 2284

; LENGTH: 13957

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE:

; OTHER INFORMATION: Genbank Accession No. US20020142981A1 M18533

US-09-880-107-2284

Query Match 51.1%; Score 1043.4; DB 10; Length 13957;

Best Local Similarity 99.9%; Pred. No. 5.4e-291;

Matches 1044; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCTTCACAGCATTTGGAGCTCCTGAAGACAAAGTCATTTGGCAGTTCATTGATGAGAG 60

Db 1159 TCCTTCACAGCATTTGGAGCTCCTGAAGACAAAGTCATTTGGCAGTTCATTGATGAGAG 1218

QY 61 TGAAGTAAACCTGGACCCCTTATCAACAGCTTTAGAGAAAGTATTATCGTGGCTTTTC 120

Db 1219 TGAAGTAAACCTGGACCCCTTATCAACAGCTTTAGAGAAAGTATTATCGTGGCTTTTC 1278

QY 121 TGCTGAGGACACATTTGCCAAGCACAGAGAGATTTCTATGATGAGAGTGGTGAAGA 180

Db 1279 TGCTGAGGACACATTTGCCAAGCACAGAGAGATTTCTATGATGAGAGTGGTGAAGA 1338

QY 181 CCAGTTTCATCTATGAGGGGTACATGATGGATTTTGCAGCCCATCAGGCCGGTTGG 240

Db 1339 CCAGTTTCATCTATGAGGGGTACATGATGGATTTTGCAGCCCATCAGGCCGGTTGG 1398

QY 241 TAATATTTACAAATTTGGGAAGTAAGCTGATGGAACAGGAAATTTATCAGAAGATGA 300

Db 1399 TAATATTTACAAATTTGGGAAGTAAGCTGATGGAACAGGAAATTTATCAGAAGATGA 1458

QY 301 AACTGAAGTACAGAGCAGATGATCTTAAATTAAGTGGATCTCCAGATCAGAACT 420

Db 1459 AACTGAAGTACAGAGCAGATGATCTTAAATTAAGTGGATCTCCAGATCAGAACT 1518

QY 361 TAGCATGGAAACAAACAAATTTACATAGATTTTAAATGGATCTCCAGATCAGAACT 420

Db 1519 TAGCATGGAAACAAACAAATTTACATAGATTTTAAATGGATCTCCAGATCAGAACT 1578

QY 421 GAAAGAGTGAATGATGCTGCTTAAACAAACAGAGAAAGAACAGAAATTTGAGGAGAA 480

Db 1579 GAAAGAGTGAATGATGCTGCTTAAACAAACAGAGAAAGAACAGAAATTTGAGGAGAA 1638

QY 481 GCCTCTTGGACCTGATCTTGAAGACCTTAAACCCCAAGTACAAACATAAGTGTCTCA 540

Db 1639 GCCTCTTGGACCTGATCTTGAAGACCTTAAACCCCAAGTACAAACATAAGTGTCTCA 1698

QY 541 AGAAGATCTAGAACAGAACAGTCAAGGTCAATTTCTCACTACATGTTGGTGTAGT 600

Db 1699 AGAAGATCTAGAACAGAACAGTCAAGGTCAATTTCTCACTACATGTTGGTGTAGT 1758

QY 601 TGATGAATCTAGTGGAGATCAGCAACTGCTGTTGGAGAACAACTTAAGGTATTGG 660

Db 1759 TGATGAATCTAGTGGAGATCAGCAACTGCTGTTGGAGAACAACTTAAGGTATTGG 1818

QY 661 AGATCGATGGCAAACTCTGTAGATGGACAGAGACCGCTGGGTCTTTTACAAGACAT 720

Db 1819 AGATCGATGGCAAACTCTGTAGATGGACAGAGACCGCTGGGTCTTTTACAAGACAT 1878

QY 721 CCTTCTCAATGGCAACGCTTCTTACTGAAGAACAGTGCCTTTTATAGTGCATGGCTTTCAGA 780

Db 1879 CCTTCTCAATGGCAACGCTTCTTACTGAAGAACAGTGCCTTTTATAGTGCATGGCTTTCAGA 1938

QY 781 AAAAGAGATGAGTGAACAGATTCACAACTGCTTTAAAGATCAAAATGAATGTT 840

Db 1939 AAAAGAGATGAGTGAACAGATTCACAACTGCTTTAAAGATCAAAATGAATGTT 1998

QY 841 ATCAAGTCTTCAAAACTGGCGCTTTTAAAGCGGATCTAGAAAAGAAAAGCAATCCAT 900

Db 1999 ATCAAGTCTTCAAAACTGGCGCTTTTAAAGCGGATCTAGAAAAGAAAAGCAATCCAT 2058

QY 901 GGGCAAACTGATTCACATCAAAACAGATCTTCTTCAACACTGGAAGATAAGTCAAGTAC 960

Db 2059 GGGCAAACTGATTCACATCAAAACAGATCTTCTTCAACACTGGAAGATAAGTCAAGTAC 2118

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QY 961 CCAGAGAGCGGAGCATGGCTGGATAAATTTGCCGGTGTGGGATAATTTAGTCCAAA 1020
Db 2119 CCAGAGAGCGGAGCATGGCTGGATAAATTTGCCGGTGTGGGATAATTTAGTCCAAA 2178
QY 1021 ACTTGAAGAGAGTACACACAGACT 1045
Db 2179 ACTTGAAGAGAGTACACACAGATT 2203

RESULT 13
US-09-845-416-14
; Sequence 14, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 3446
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-14

Query Match 51.1%; Score 1042; DB 12; Length 3446;
Best Local Similarity 96.8%; Pred. No. 5.5e-291;
Matches 1074; Conservative 0; Mismatches 35; Indels 1; Gaps 1;

QY 1 TCCTTCACAGCATTTGGAAGCTCCTGAAGACAAAGTCATTGGCAGTTCATTGANGAGAG 60
Db 960 TCCTTCACAGCATTTGGAAGCTCCTGAAGACAAAGTCATTGGCAGTTCATTGANGAGAG 1019

QY 61 TGAAGTAACTGGACGGTATCAAAACAGCTTTAGAACAGTATATATCGGCTCTTTC 120
Db 1020 TGAAGTAACTGGACGGTATCAAAACAGCTTTAGAACAGTATATATCGGCTCTTTC 1079

QY 121 TGTGAGGACATTCGAAGCACAAGAGAGATTTCTAATCATGTGGAAGTGTGAAGA 180
Db 1080 TGTGAGGACATTCGAAGCACAAGAGAGATTTCTAATCATGTGGAAGTGTGAAGA 1139

QY 181 CCAGTTTCATCTCATGAGGGGTACATGATGATTTGACAGCCCATCAGGCGGGTGG 240
Db 1140 CCAGTTTCATCTCATGAGGGGTACATGATGATTTGACAGCCCATCAGGCGGGTGG 1199

QY 241 TAATATCTACAATTTGGAGTAAGCTGATTGGACAGAGAAATATCAGAGATCAAGA 300
Db 1200 TAATATCTACAATTTGGAGTAAGCTGATTGGACAGAGAAATATCAGAGATCAAGA 1259

QY 301 AACTGAAGTACAGACAGATGATCTCCTAAATCAAGATGGAATGCCCTCAGGTAGC 360
Db 1260 AACTGAAGTACAGACAGATGATCTCCTAAATCAAGATGGAATGCCCTCAGGTAGC 1319

QY 361 TAGCATGGAAGAAACAAGACAAATTTACATAGATTTTAATGATCTCCAGAAATCAAACT 420
Db 1320 TAGCATGGAAGAAACAAGACAAATTTACATAGATTTTAATGATCTCCAGAAATCAAACT 1378

QY 421 GAAGAGTTGATGCTGCTTACAAAACAGAGAAAGACAGAGAAATGAGGAGAGA 480
Db 1379 GAAGAGTTGATGCTGCTTACAAAACAGAGAAAGACAGAGAAATGAGGAGAGA 1438

QY 481 GCCTCTTGACCTGATCTTGAAGACCTTAAACGCCAAGTACAAACATCAAGTGTCTCA 540
Db 1439 GCCTCTTGACCTGATCTTGAAGACCTTAAACGCCAAGTACAAACATCAAGTGTCTCA 1498

QY 541 AGAAGATCTAGAACAAAGCAAGTCAAGGTCAATTCCTCACTCAGATGATGATGATGAT 600
Db 1499 AGAAGATCTAGAACAAAGCAAGTCAAGGTCAATTCCTCACTCAGATGATGATGATGAT 1558
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QY 601 TGATGAATCTAGTGGAGATCACCAACTCCTCTCTTTGGAGAACAACTTAAGTATTGGG 660
Db 1559 TGATGAATCTAGTGGAGATCACCAACTCCTCTCTTTGGAGAACAACTTAAGTATTGGG 1618
QY 661 AGATCGATGGGCAACAATCTGTAGTGGACAGAACCGCTGGGTCTTTTACAGACAT 720
Db 1619 AGATCGATGGGCAACAATCTGTAGTGGACAGAACCGCTGGGTCTTTTACAGACAT 1678
QY 721 CCTTCTCAAAATGGCAACGCTTTACTGAAGAACAGTGCCTTTTATAGTCATGGCTTCAGA 780
Db 1679 CCTTCTCAAAATGGCAACGCTTTACTGAAGAACAGTGCCTTTTATAGTCATGGCTTCAGA 1738
QY 781 AAAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 840
Db 1739 AAAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1798
QY 841 ATCAAGTCTTCAAAACTGGCCGCTTTTAAAGCGGATCTAGAAAAGAAAAGCAATCCAT 900
Db 1799 ATCAAGTCTTCAAAACTGGCCGCTTTTAAAGCGGATCTAGAAAAGAAAAGCAATCCAT 1858
QY 901 GGGCAAACTGATTTCACTCAAAACAGATCTTTTCAACACTGAAGATAAGTCAAGTAC 960
Db 1859 GGGCAAACTGATTTCACTCAAAACAGATCTTTTCAACACTGAAGATAAGTCAAGTAC 1918
QY 961 CCAGAGAGCGGAGCATGGCTGGATTAACCTTCCCGGTGTTGGGATAATTTAGTCCAAA 1020
Db 1919 CCAGAGAGCGGAGCATGGCTGGATTAACCTTCCCGGTGTTGGGATAATTTAGTCCAAA 1978
QY 1021 ACTTGAAGAGAGTACAGACAGATCTATAGATTTACTGACAGATTTCCCTCCCTGACCTGGA 1080
Db 1979 ACTTGAAGAGAGTACAGACAGATCTTGAAGAGATTTCCAGGAACTTCAAGAGGCCACGGA 2038
QY 1081 AAGTTTCTTGCCTGGCTTACAGAACTGA 1110
Db 2039 TGAGTGGACCTCAAGCTGCCCAAGCTGA 2068

RESULT 14
US-09-845-416-1
; Sequence 1, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 11058
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-1

Query Match 51.0%; Score 1040.2; DB 12; Length 11058;
Best Local Similarity 99.7%; Pred. No. 3.9e-290;
Matches 1042; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 TCCTTCACAGCATTTGGAAGCTCCTGAAGACAAAGTCATTGGCAGTTCATTGATGAGAG 60
Db 951 TCCTTCACAGCATTTGGAAGCTCCTGAAGACAAAGTCATTGGCAGTTCATTGATGAGAG 1010
QY 61 TGAAGTAACTGGACGGTATCAAAACAGCTTTAGAACAGTATATATCGGCTCTTTC 120
Db 1011 TGAAGTAACTGGACGGTATCAAAACAGCTTTAGAACAGTATATATCGGCTCTTTC 1070
QY 121 TGCCTGAGGACATTTGACACAGAGAGATTTCTAATCATGTGGAAGTGTGAAGA 180
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Db 1791 ATCAAGTCTTCAAAAACGTGCCGTTTAAAAAGCGATCTAGAAAAAGAAAAAGCAATCCAT 1850
QY 901 GGGCAAACTGTATTCACCTCAAAACAAGATCTTCTTCAACACTCAAGATAAGTCAGTGAC 960
Db 1851 GGGCAAACTGTATTCACCTCAAAACAAGATCTTCTTCAACACTCAAGATAAGTCAGTGAC 1910
QY 961 CCAGAAGACGGAGCATGGCTGGATAACTTTGCCCGGTGTTGGGATAATTTAGTCCAAA 1020
Db 1911 CCAGAAGACGGAGCATGGCTGGATAACTTTGCCCGGTGTTGGGATAATTTAGTCCAAA 1970
QY 1021 ACTTGAAGAGGTACAGCACA 1041
Db 1971 ACTTGAAGAGGTACAGCACA 1991

Search completed: September 24, 2003, 11:51:23
Job time : 488.352 secs

Result No.	Query			DB	ID	Description
	Score	Match	Length			
1	1242.6	60.9	5952	4	US-09-687-875A-1	Sequence 1, Appli
2	1242.6	60.9	13977	4	US-09-484-970B-60	Sequence 60, Appl
3	1060.2	51.9	19307	3	US-08-836-022A-10	Sequence 10, Appl
4	1060.2	51.9	19307	3	US-09-421-048A-10	Sequence 10, Appl
5	438.8	21.5	6045	4	US-09-091-501B-7	Sequence 7, Appli
6	438.8	21.5	10320	4	US-09-091-501B-9	Sequence 9, Appli
7	79.4	3.9	200	4	US-09-091-501B-5	Sequence 5, Appli
8	78.6	3.9	200	4	US-09-091-501B-4	Sequence 4, Appli
9	78.6	3.9	200	4	US-09-091-501B-6	Sequence 6, Appli
10	76.6	3.8	7218	1	US-08-232-463-14	Sequence 14, Appl
11	63.6	2.1	238	4	US-09-687-875A-13	Sequence 13, Appl
12	44	2.2	1230025	4	US-09-138-452A-1	Sequence 1, Appl
13	43.8	2.1	2574	4	US-09-668-313A-10	Sequence 10, Appl
14	43.4	2.1	1179	4	US-09-107-532A-1186	Sequence 1186, Ap
15	42.8	2.1	1690	4	US-09-620-312D-69	Sequence 69, Appl
16	42.8	2.1	7812	3	US-09-368-590-1	Sequence 1, Appli
17	40.4	2.0	2223	1	US-08-257-073-4	Sequence 4, Appli
18	39.2	1.9	16995	4	US-08-961-527-82	Sequence 82, Appl
19	38.6	1.9	1751	4	US-09-620-312D-847	Sequence 847, App
20	38.6	1.9	1995	1	US-08-423-069-3	Sequence 3, Appli
21	38.6	1.9	1995	2	US-08-317-844B-3	Sequence 3, Appli
22	38.4	1.9	7672	4	US-09-220-132-24	Sequence 24, Appl
23	38.2	1.9	1131	6	5180810-3	Patent No. 5180810
24	38.2	1.9	11784	6	5180810-2	Patent No. 5180810
25	38	1.9	1394	4	US-09-247-155-76	Sequence 76, Appl
26	37.4	1.8	428	4	US-09-668-313A-3	Sequence 3, Appli
27	37.4	1.8	4439	4	US-09-668-313A-17	Sequence 17, Appl

Db 8980 CTGGCAGAGAAATAGATGAGACCCCTTGAAGAGCTCCAGAACCTTCAGAGGCCACGGA 9039
QY 1573 TAGAGCTGAGACTCAAGCTCGCCAAAGCTGAGGTGATCAAGGATCTCGAGCCCGTGGG 1632
Db 9040 TAGAGCTGAGACTCAAGCTCGCCAAAGCTGAGGTGATCAAGGATCTCGAGCCCGTGGG 9099
QY 1633 CGATCTCCTCATGACTCTCTCAAGATCACTCGAGAAAGTCAAGGACTTCAGAGAGA 1692
Db 9100 CGATCTCCTCATGACTCTCTCAAGATCACTCGAGAAAGTCAAGGACTTCAGAGAGA 9159
QY 1693 AATTGGCGCTCTCAAGAGAGAGCTGAGCCAGCTCAATGACCTTGTGCGCAGCTTACCAC 1752
Db 9160 AATTGGCGCTCTCAAGAGAGAGCTGAGCCAGCTCAATGACCTTGTGCGCAGCTTACCAC 9219
QY 1753 TTGGGCAATCAGCTCTACCGTATATAAAGCTCAGACCTCTGGAAGAGCTGGAACACCATG 1812
Db 9220 TTGGGCAATCAGCTCTACCGTATATAAAGCTCAGACCTCTGGAAGAGCTGGAACACCATG 9279
QY 1813 GAAGCTCTCAGGTGGCGCTGAGAGCCGAGTCAAGGAGCTGAGGAGCTGAGGAGCCACAGGGA 1872
Db 9280 GAAGCTCTCAGGTGGCGCTGAGAGCCGAGTCAAGGAGCTGAGGAGCTGAGGAGCCACAGGGA 9339
QY 1873 CTTTGGTCCAGCTCTCAGACTTTCTTTCCACGCTCTGTCAGGGTCCCTGGGAGAGAGC 1932
Db 9340 CTTTGGTCCAGCTCTCAGACTTTCTTTCCACGCTCTGTCAGGGTCCCTGGGAGAGAGC 9399
QY 1933 CATCTCGCCAAACAAAGTCCCTACTATATCAACACGAGACTCAACAACTTGTGGGA 1992
Db 9400 CATCTCGCCAAACAAAGTCCCTACTATATCAACACGAGACTCAACAACTTGTGGGA 9459
QY 1993 CCATCCCAATGACAGACTCTACAGCTCTTTAGCTGACCTGAATAT 2041
Db 9460 CCATCCCAATGACAGACTCTACAGCTCTTTAGCTGACCTGAATAT 9508

RESULT 3

US-08-836-022A-10/c
; Sequence 10, Application US/08836022A
; Patent No. 600157
; GENERAL INFORMATION:
; APPLICANT: Trustees of the University of Pennsylvania
; APPLICANT: Wilson, James M.
; APPLICANT: Fisher, Krishna J.
; APPLICANT: Chen, Shu-Jen
; APPLICANT: Weitzman, Matthew
; TITLE OF INVENTION: Improved Adenovirus Virus and
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Howson and Howson
; STREET: Spring House Corporate Cntr, P O Box 457
; CITY: Spring House
; STATE: Pennsylvania
; COUNTRY: USA
; ZIP: 19477
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,022A
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/331,381
; FILING DATE: 28-OCT-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Bak, Mary E.
; REGISTRATION NUMBER: 31,215
; REFERENCE/DOCKET NUMBER: GNVPN.008PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-540-9200

TELEFAX: 215-540-5818
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 19307 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: unknown
; MOLECULE TYPE: cdna
US-08-836-022A-10

Query Match 51.98; Score 1060.2; DB 3; Length 19307;
Best Local Similarity 90.68; Pred. No. 0;
Matches 1131; Conservative 0; Mismatches 118; Indels 0; Gaps 0;

QY 793 GGTACTCTACTCATAGATTACTGCAACAGTTCCCTGACCTGACCTGAAAAAGTTCTTTCGCTG 852
Db 6434 GGAAGAACTCATAGATTACTGCAACAGTTCCCTGACCTGACCTGAAAAAGTTCTTTCGCTG 6375

QY 853 GCTTACAGAACTGAAACAACTGCAATGCTCTACAGATGCTACCGGTAAGAAAGCT 912
Db 6374 GATTACGGAAGCAAGAACTGCAATGCTCTACAGATGCTACCGGTAAGAAAGCT 6315

QY 913 CTTAGAGACTTCCAAAGGAGTAAAGAGCTGATGAACAATGGAAGACTCCAGAGTGA 972
Db 6314 CTTAGAGACTTCCAAAGGAGTAAAGAGCTGATGAACAATGGAAGACTCCAGAGTGA 6255

QY 973 AATTGAACTCACAAGATGTTTATCACAACCTGATGAAAGAGCAACCAAAATCCTGAG 1032
Db 6254 AATTGAACTCACAAGATGTTTATCACAACCTGATGAAAGAGCAACCAAAATCCTGAG 6195

QY 1033 ATCCCTGGAAGTTCGAGTGCAGTCTGTTCAAGAGAGCTTTGGATAAATCAATCAAT 1092
Db 6194 ATCCCTGGAAGTTCGAGTGCAGTCTGTTCAAGAGAGCTTTGGATAAATCAATCAAT 6135

QY 1093 CAAGTGGAGTGAAGTTCGGAAGAGTCTCAAAATAGTCCCATTTGGAAGCCAGTTC 1152
Db 6134 CAAGTGGAGTGAAGTTCGGAAGAGTCTCAAAATAGTCCCATTTGGAAGCCAGTTC 6075

QY 1153 TGACCAAGTGAAGCTGTGCACCTTTCTGTCAGAGAACTTCTGTTGCTACAGCTGAA 1212
Db 6074 TGACCAAGTGAAGCTGTGCACCTTTCTGTCAGAGAACTTCTGTTGCTACAGCTGAA 6015

QY 1213 AGATGATGAATTAAGCCGAGCAGCTATTTGGAGGAGCTTTCCAGCAGTTCAGAGCA 1272
Db 6014 AGATGATGAATTAAGCCGAGCAGCTATTTGGAGGAGCTTTCCAGCAGTTCAGAGCA 5955

QY 1273 GAACGATGATAGGCGCTTCAAGAGGAGTGAAGAACTTGAAGAACTTGAAGAACTTGA 1332
Db 5954 GAATGATGATAGGCGCTTCAAGAGGAGTGAAGAACTTGAAGAACTTGAAGAACTTGA 5895

QY 1333 TACTCTTGAGACTGTACGATATTTCTGACAGAGCAGCTTTGGAAGGACTAGAGAACT 1392
Db 5894 TACTCTTGAGACTGTACGATATTTCTGACAGAGCAGCTTTGGAAGGACTAGAGAACT 5835

QY 1393 CTACAGAGCCGAGAGCTGCTCTCTGAGAGAGAGCCCAAGTCTCACTCGCTCTCT 1452
Db 5834 CTACAGAGCCGAGAGCTGCTCTCTGAGAGAGAGCCCAAGTCTCACTCGCTCTCT 5775

QY 1453 ACGAAGCAGCTGAGAGGCTCAATGCTGAGTGGGAAAAATTTGAACCTGACCTCGCTG 1512
Db 5774 ACGAAGCAGCTGAGAGGCTCAATGCTGAGTGGGAAAAATTTGAACCTGACCTCGCTG 5715

QY 1513 CTGCGAGAGAAAAATGATGAGACCTTGAAGAGCTCCAGAGAACTTCAAGAGCCACGGA 1572
Db 5714 TTGGCAGAGAAAAATGATGAGAACTTGAAGAGCTCCAGAGAACTTCAAGAGCCACGGA 5655

QY 1573 TGAGCTGCACTCAAGCTGGCCAGCAGCTGATCAAGGATCTGCGACCCGCTGGG 1632
Db 5654 TGAGCTGCACTCAAGCTGGCCAGCAGCTGATCAAGGATCTGCGACCCGCTGGG 5595

QY 1633 CGATCTCCTCATGACTCTCTCAAGATCACTCGAGAAAGTCAAGGACTTCAGAGAGA 1692
Db 5594 GGATCTCCTCATGACTCTCTCAAGATCACTCGAGAAAGTCAAGGACTTCAGAGAGA 5535


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; TYPE: DNA
; ORGANISM: Rattus sp.
US-09-091-501B-5

Query Match          3.9%; Score 79.4; DB 4; Length 200;
Best Local Similarity 64.3%; Pred. No. 8e-15;
Matches 119; Conservative 0; Mismatches 66; Indels 0; Gaps 0;

QY 445 CTTAAAGCGCAAGTAAACACATAAGTGTCTTCAAGAGATCTAGAACAAACAAGT 504
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 16 CQTCAAAACCTCTTGAAGACATAAAAGTTTGCRAAGTACCTCGAAGCTGAGCAGT 75

QY 505 CAGGTCAATCTCTCACTACATGCTGGTGGTGGTGGTGGTGGTGGTGGTGGT 564
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 76 GAAGTGAATTCCTTAACTCATATGCTGGTGGTGGTGGTGGTGGTGGTGGTGG 135

QY 565 AACTGCTGCTTTCGAAACAACTTAAGTATTGGGATCGATGGCAACATCTCTAG 624
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 136 CACAGCTGTTTGGAGATCAGTTACAGAACTGGGTGAGCGCTGGACGCTGTATCCG 195

QY 625 ATGGA 629
    ||| |||
Db 196 CTGGA 200

RESULT 8
US-09-091-501B-4
; Sequence 4, Application US/09091501B
; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: Tinsley, Jonathon M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Utrrophin gene expression
; FILE REFERENCE: 620-42
; CURRENT APPLICATION NUMBER: US/09/091.501B
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: PCT/GB96/03156
; PRIOR FILING DATE: 1996-12-19
; PRIOR FILING DATE: 1995-12-19
; PRIOR FILING DATE: 1996-07-26
; PRIOR APPLICATION NUMBER: GB 9615797.9
; PRIOR FILING DATE: 1996-10-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 200
; TYPE: DNA
; ORGANISM: Mus sp.
US-09-091-501B-4

Query Match          3.9%; Score 78.6; DB 4; Length 200;
Best Local Similarity 62.4%; Pred. No. 1.4e-14;
Matches 123; Conservative 0; Mismatches 74; Indels 0; Gaps 0;

QY 433 TGATCTTGAGAGACTAAAGCCCAAGTACACACATAGAGTCTTCAGAGATCTAGA 492
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 4 TGATGTGAATCTCTACAAAGCTCTCTAGAAACATAAAAGTTTGCRAAGTATCTGA 63

QY 493 ACAAGAACAAAGTCAGGTCATTTCTCACTACATGCTGGTGGTGGTGGTGGTGG 552
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 64 GCCTGACACAGGTGAAGTAAATTCATCACTACATGCTGGTGGTGGTGGTGGTGG 123

QY 553 TGGAGATCAGCAACTGCTGCTTTTGGAGAACAACTTAAAGTATTGGGAGATCGATGGC 612
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 124 TGGTGAGAGCGCTACAGCTATCTCTAGAACACCAGTTACAGAACTTGGTGGCGCTGGAC 183

QY 613 AAACATCTGTAGTGA 629
    ||| ||| ||| |||
Db 184 AGCTGTATGCGGTGGA 200

RESULT 9
US-09-091-501B-6
; Sequence 6, Application US/09091501B
; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: Tinsley, Jonathon M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Utrrophin gene expression
; FILE REFERENCE: 620-42
; CURRENT APPLICATION NUMBER: US/09/091.501B
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: PCT/GB96/03156
; PRIOR FILING DATE: 1996-12-19
; PRIOR APPLICATION NUMBER: GB 9525962.8
; PRIOR FILING DATE: 1995-12-19
; PRIOR APPLICATION NUMBER: GB 9615797.9
; PRIOR FILING DATE: 1996-07-26
; PRIOR APPLICATION NUMBER: GB 9622174.2
; PRIOR FILING DATE: 1996-10-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 200
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-091-501B-6

Query Match          3.9%; Score 78.6; DB 4; Length 200;
Best Local Similarity 62.4%; Pred. No. 1.4e-14;
Matches 123; Conservative 0; Mismatches 74; Indels 0; Gaps 0;

QY 433 TGATCTTGAGAGACTAAAGCCCAAGTACACACATAGAGTCTTCAGAGATCTAGA 492
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 4 TGATGTGAATCTCTACAAAGCTCTCTAGAAACATAAAAGTTTGCRAAGTATCTGA 63

QY 493 ACAAGAACAAAGTCAGGTCATTTCTCACTACATGCTGGTGGTGGTGGTGGTGG 552
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 64 GCCTGACACAGGTGAAGTAAATTCATCACTACATGCTGGTGGTGGTGGTGGTGG 123

QY 553 TGGAGATCAGCAACTGCTGCTTTTGGAGAACAACTTAAAGTATTGGGAGATCGATGGC 612
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 124 TGGTGAGAGCGCTACAGCTATCTCTAGAACACCAGTTACAGAACTTGGTGGCGCTGGAC 183

QY 613 AAACATCTGTAGTGA 629
    ||| ||| ||| |||
Db 184 AGCTGTATGCGGTGGA 200

RESULT 10
US-08-232-463-14/c
; Sequence 14, Application US/08232463
; Patent No. 5670367
; GENERAL INFORMATION:
; APPLICANT: DORNER, F.
; APPLICANT: SCHEITFLINGER, F.
; APPLICANT: FALKNER, F. G.
; TITLE OF INVENTION: RECOMBINANT FOWLPOX VIRUS
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 1800 Diagonal Road, Suite 500
; CITY: Alexandria
; STATE: VA
; COUNTRY: USA
; ZIP: 22313-0299
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/232,463
; FILING DATE:
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; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
;   APPLICATION NUMBER: US/07/935,313
;   FILING DATE:
;   APPLICATION DATE: EP 91 114 300.6
;   FILING DATE: 26-AUG-1991
;   ATTORNEY/AGENT INFORMATION:
;     NAME: BENT, Stephen A.
;     REGISTRATION NUMBER: 29,768
;     REFERENCE/DOCKET NUMBER: 30472/114 IMMU
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE: (703)836-9300
;       TELEFAX: (703)683-4109
;       TELEX: 899149
;   INFORMATION FOR SEQ ID NO: 14:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH: 7218 base pairs
;       TYPE: nucleic acid
;       STRANDEDNESS: single
;       TOPOLOGY: linear
;     IMMEDIATE SOURCE:
;       CLONE: ptz9pt-fls
;     US-08-232-463-14

Query Match      3.8%; Score 76.6; DB 1; Length 7218;
Best Local Similarity 6.7%; Pred. No. 7.3e-13;
Matches 28; Conservative 236; Mismatches 155; Indels 0; Gaps 0;

QY 93 TTCTAATGATGGAAAGTGTGAAGAACAGTTCTACTATGATGAGGGTACATGATGG 152
    ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 1474 TATCTATGCAAGTAGTTAAAGAGATAGAGAATTTGGTACRRRRRRRRRRRRRRR 1415

QY 153 ATTTCAGACCCATCAGGCGGCTTGGTAAATTTCTACAAATGGGAAGTAAGCTGATG 212
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 1414 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1355

QY 213 GAACAGAAATATCAGAAGATGAAGAACTGAAGTACAGACAGATGAATCTCTAA 272
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 1354 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1295

QY 273 ATTTCAGATGGGAATGCCWAGGTAGTACATGAGTGAAGAAACAAAGCAATTACATAGAG 332
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 1294 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1235

QY 333 TTTTAAATGATCTCCAGATCAGAACTGAAGAGTTGAATGACTGGCTACAAACAG 392
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 1234 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1175

QY 393 AAGAAAGAACAGAAATGGAGAGAGAGCTTTGGACCTGATCTTGAAGACCTAAAC 452
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 1174 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1115

QY 453 GCCAAGTACACACACATAGGTGTTCAAGAAGATCTAGAACAGACAGTCAAGGTC 511
    : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 1114 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1056

RESULT 11
US-09-687-875A-13
; Sequence 13, Application US/09687875A
; Patent No. 654786
; GENERAL INFORMATION:
;   APPLICANT: Xiao, Xiao
;   APPLICANT: Liu, Paul
;   TITLE OF INVENTION: METHOD AND VECTOR FOR PRODUCING AND TRANSFERRING TRANS-SPICED PE
;   FILE REFERENCE: 00792
;   CURRENT APPLICATION NUMBER: US/09/687,875A
;   CURRENT FILING DATE: 2000-10-13
;   PRIOR APPLICATION NUMBER: 60/158,868
;   PRIOR FILING DATE: 1999-10-15
;   NUMBER OF SEQ ID NOS: 22
;   SOFTWARE: PatentIn version 3.1
;   SEQ ID NO 13
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; LENGTH: 238
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: pXX-C2 5' junction
US-09-687-875A-13

Query Match      3.1%; Score 63.6; DB 4; Length 238;
Best Local Similarity 94.3%; Pred. No. 7.6e-10;
Matches 66; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1045 TTCCGATGATGACGTCCTGTTTACAAAGACGTTTGGATACATGAACTTCAAGTGGAGTGA 1104
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 169 TTGGGACGACGAGTACTGTTTACAAAGACGTTTGGATACATGAACTTCAAGTGGAGTGA 228

QY 1105 ACTTCGGA 1114
    ||||| |||
Db 229 ACTTCGGA 238

RESULT 12
US-09-198-452A-1/c
; Sequence 1, Application US/09198452A
; Patent No. 6559294
; GENERAL INFORMATION:
;   APPLICANT: Grifais, R.
;   TITLE OF INVENTION: Chlamydia pneumoniae genomic sequence and polypeptides, fragm
;   TITLE OF INVENTION: thereof and uses thereof, in particular for the diagnosis, i
;   FILE REFERENCE: 9710-003-999
;   CURRENT APPLICATION NUMBER: US/09/198,452A
;   CURRENT FILING DATE: 1998-11-24
;   NUMBER OF SEQ ID NOS: 6849
;   SEQ ID NO 1
;   LENGTH: 1230025
; TYPE: DNA
; ORGANISM: Chlamydia pneumoniae
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(15000)
; OTHER INFORMATION: n-a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (15001)..(30000)
; OTHER INFORMATION: n-a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (30001)..(45000)
; OTHER INFORMATION: n-a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (45001)..(60000)
; OTHER INFORMATION: n-a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (60001)..(75000)
; OTHER INFORMATION: n-a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (75001)..(90000)
; OTHER INFORMATION: n-a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (90001)..(105000)
; OTHER INFORMATION: n-a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (105001)..(120000)
; OTHER INFORMATION: n-a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (120001)..(135000)
; OTHER INFORMATION: n-a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (135001)..(150000)
; OTHER INFORMATION: n-a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (150001)..(165000)
; OTHER INFORMATION: n-a or c or g or t
; NAME/KEY: misc_feature
; LOCATION: (165001)..(180000)
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; LOCATION: (300001)..(913000)
; OTHER INFORMATION: n=a or c or g or t
; NAME/KEY: misc_feature

Query Match
Best Local Similarity 2.2%; Score 44; DB 4; Length 1230025;
Matches 92; Conservative 0; Mismatches 80; Indels 0; Gaps 0;

QY 222 AATTATCAGAGATGAAGAACTGAAGTACAGAGACGAGATCAATTCCTAAATTTCAAGAT 281
Db 656477 AATTAGAGAGAGAGAGAGAGAGAAATTTGAGGATATCAAGACTCAGATACAAAAT 656418

QY 282 GGAATGCTCAGGTAGCTAGCATGGAAACAAAGCAATTTACATAGAGATTTTAATGG 341
Db 656417 GGGTTTCGATCACTCAAGCTGCTAAATTTACATAGCTAGCGAGCAATTTATGCG 656358

QY 342 ATCTCAGAACTCAGAACTGAAGAGTTGAATGACTGGCTTAACAAAACAGA 393
Db 656357 CAATTAGCAGAGAAAAAATAAAGCTTCTAAGAGAGCGCGCTGGGAATAGA 656306

RESULT 13
US-09-668-313A-10
; Sequence 10, Application US/09668313A
; Patent No. 6503756
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Susan M. Freier
; APPLICANT: Jacqueline Wyatt
; TITLE OF INVENTION: ANTISENSE MODULATION OF SYNTAXIN 4 INTERACTING PROTEIN EXPRESSION
; FILE REFERENCE: RTS-0127
; CURRENT APPLICATION NUMBER: US/09/668,313A
; CURRENT FILING DATE: 2000-09-22
; NUMBER OF SEQ ID NOS: 247
; SEQ ID NO 10
; LENGTH: 2574
; TYPE: DNA
; ORGANISM: Mus musculus
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (218)...(1891)
US-09-668-313A-10

Query Match
Best Local Similarity 2.1%; Score 43.8; DB 4; Length 2574;
Matches 72; Conservative 0; Mismatches 47; Indels 0; Gaps 0;

QY 1922 TGGGAGAGAGCCATCTCGCAACAAAGTGCCCTACTATATATCAACACGAGACTCAACA 1981
Db 1733 TGGGAGAGAGCTTACACAGCAGATGGAATCAAGTACTATCAACACGAGACTCAACA 1792

QY 1982 ACTTGTGGGACCATCCCAAAATGACAGAGCTTACAGTCTTTAGTGCCTGAATAA 2040
Db 1793 ACCTCTGGATCCACCCCGTGATGAGCGCCCTGAACTGCTCTGTGAGGAGAGTGA 1851

RESULT 14
US-09-107-532A-1186
; Sequence 1186, Application US/09107532A
; Patent No. 6583275
; GENERAL INFORMATION:
; APPLICANT: Lynn A Doucette-Stamm and David Bush
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
; NUMBER OF SEQUENCES: 7310
; CORRESPONDENCE ADDRESS:
; ADDRESS: GENOME THERAPEUTICS CORPORATION
; STREET: 100 Beaver Street
; CITY: Waltham
; STATE: Massachusetts
; COUNTRY: USA
; ZIP: 02354
; COMPUTER READABLE FORM:
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; MEDIUM TYPE: CD/ROM ISO9660
; COMPUTER: PC
; OPERATING SYSTEM: <Unknown>
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/107,532A
; FILING DATE: 30-Jun-1998
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/085,598
; FILING DATE: 14 May 1998
; APPLICATION NUMBER: 60/051571
; FILING DATE: July 2, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Ariniello, Pamela Deneke
; REGISTRATION NUMBER: 40,489
; REFERENCE/DOCKET NUMBER: GTC-012
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (781)893-5007
; TELEFAX: (781)893-8277
; INFORMATION FOR SEQ ID NO: 1186:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1179 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: circular
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Enterococcus faecium
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (B) LOCATION 1...1179
; SEQUENCE DESCRIPTION: SEQ ID NO: 1186:
US-09-107-532A-1186

Query Match
Best Local Similarity 2.1%; Score 43.4; DB 4; Length 1179;
Matches 104; Conservative 0; Mismatches 101; Indels 0; Gaps 0;

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Db 602 AGCAAGAATAAAGATTGATCGATCAGACAAAGAAAAATGGAGATACGATCGGAGGAA 661

QY 411 TGSAGAGAGCCCTCTGGACCTGTGAGACCTTAACACCCAGTACACACATA 470
Db 662 TTGTAGAGTCTCGTTGGAGCGGTTCCAGCTGGATTAGGAAGCTAGTACATGGACA 721

QY 471 AGGTGCTTCAAGAGATCTAGAACAAGAACAAAGTCAGGGTCAATTCCTCACTCATGG 530
Db 722 CGAAGCTAGATGCCAAAATCGACAAAGCTGTGTTAGTAGTATCAATGCTTTAAGGCGTAG 781

QY 531 TGGTGTAGTGTGAATCTAGTGG 555
Db 782 AATTTGGGTCGGATTCACTTCTGG 806

RESULT 15
US-09-620-312D-69
; Sequence 69, Application US/09620312D
; Patent No. 6569662
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenchua
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyan
; APPLICANT: Chen, Rui-hong
; APPLICANT: Zhao, Qing A.
; APPLICANT: Wehrman, Tom
; APPLICANT: Xue, Aidong J.
; APPLICANT: Yang, Yonghong
; APPLICANT: Wang, Jian-Rui
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OM nucleic - nucleic search, using sw model

Run on: September 23, 2003, 23:43:25 ; Search time 472.352 Seconds
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Gapop 10.0 , Gapext 1.0

Searched: 1678620 seqs, 1244745471 residues

Total number of hits satisfying chosen parameters: 3357240

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:*

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- 11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	2041	100.0	4990	12	US-09-845-416-34
4	1749	85.7	3858	12	US-09-845-416-9
5	1749	85.7	4825	12	US-09-845-416-29
6	1749	85.7	4848	12	US-09-845-416-35
7	1749	85.7	5060	12	US-09-845-416-36
8	1702.8	83.4	4182	12	US-09-845-416-2
9	1702.8	83.4	5149	12	US-09-845-416-27
10	1242.6	60.9	11058	12	US-09-845-416-1
11	1242.6	60.9	13957	10	US-09-782-378A-22
12	1242.6	60.9	13957	10	US-09-880-107-2284
13	1242	60.9	2169	12	US-09-845-416-4
14	1242	60.9	3531	12	US-09-845-416-10
15	1242	60.9	4498	12	US-09-845-416-30
16	1053	51.6	3510	12	US-09-845-416-12

17	1053	51.6	4476	12	US-09-845-416-31	Sequence 31, Appl
18	895	43.9	1821	12	US-09-845-416-13	Sequence 13, Appl
19	658.4	32.3	4414	12	US-09-845-416-32	Sequence 32, Appl
20	658	32.2	1991	12	US-09-845-416-3	Sequence 3, Appl
21	657	32.2	1667	12	US-09-845-416-7	Sequence 7, Appl
22	646.4	31.7	3446	12	US-09-845-416-14	Sequence 14, Appl
23	508	24.9	1434	12	US-09-845-416-15	Sequence 15, Appl
24	438.8	21.5	10302	10	US-09-782-378A-23	Sequence 23, Appl
25	426.8	20.9	16531	12	US-10-101-510-667	Sequence 667, App
26	330	16.2	1340	12	US-09-845-416-11	Sequence 11, Appl
27	153.4	7.5	467	9	US-09-864-761-11083	Sequence 11083, A
28	151	7.4	151	9	US-09-864-761-27715	Sequence 27715, A
29	140.8	6.9	147	12	US-09-845-416-8	Sequence 8, Appl
30	140.2	6.9	256	9	US-09-864-761-21956	Sequence 21956, A
31	124	6.1	466	9	US-09-864-761-6092	Sequence 6092, Ap
32	80	3.9	517	13	US-10-027-632-88865	Sequence 88865, A
33	49	2.4	3987	14	US-10-198-846-12468	Sequence 12468, A
34	49	2.4	9274	10	US-09-885-535-3	Sequence 3, Appl
35	43	2.1	436	10	US-09-960-352-10742	Sequence 10742, A
36	42.8	2.1	1690	14	US-10-037-270-69	Sequence 69, Appl
37	42.2	2.1	423	9	US-09-864-761-18355	Sequence 18355, A
38	41.8	2.0	592	13	US-10-027-632-304596	Sequence 304596,
39	41	2.0	6455	12	US-10-017-161-963	Sequence 963, App
40	40.6	2.0	425	10	US-09-960-352-4010	Sequence 4010, Ap
41	40.4	2.0	428	10	US-09-864-864-204	Sequence 204, App
42	40.4	2.0	599	14	US-10-198-846-4738	Sequence 4738, Ap
43	40.4	2.0	635	13	US-10-027-632-269927	Sequence 269927,
44	40.4	2.0	1735	12	US-09-814-353-21833	Sequence 21833, A
45	40.4	2.0	6132	12	US-10-311-455-1963	Sequence 1963, Ap

ALIGNMENTS

RESULT 1

US-09-845-416-6
; Sequence 6, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-6

Query Match 100.0%; Score 2041; DB 12; Length 3999;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2041; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 TGAAGTAAACCTGGACCGCTTATCAACACAGCTTTAGAGAGATATTATCGTGGCTTCTTC 60
Db 1020 TGAAGTAAACCTGGACCGCTTATCAACACAGCTTTAGAGAGATATTATCGTGGCTTCTTC 1079
QY 61 TCGTAGGACACATTCGACGACAGAGAGATTTCTAATGATGTGGAGTGGTGAAGA 120
Db 1080 TCGTAGGACACATTCGACGACAGAGAGATTTCTAATGATGTGGAGTGGTGAAGA 1139
QY 121 CCAGTTTCATCTCATGAGGGGTACATGATGGATTTCAGACGCCATCAGGCCGGGTGG 180
Db 1140 CCAGTTTCATCTCATGAGGGGTACATGATGGATTTCAGACGCCATCAGGCCGGGTGG 1199
QY 181 TAATATTCTACAAATGGGAAGTAAAGCTGATTGGAACAGGAAATATTCAGAGATGAAGA 240
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Db 1200 TAAATATCTCAATGGGAAGTAAGCTGATTGGACAGGAAATTTATCAGAGATGAGA 1259
QY 241 AACTGAAGTACAAGACAGATGAATCTCTTAATTCAGATGGAAATGCTCCAGGGTACG 300
Db 1260 AACTGAAGTACAAGACAGATGAATCTCTTAATTCAGATGGAAATGCTCCAGGGTACG 1319
QY 301 TAGCATGGAATAAACAAGCAATTTACATAGAGTTTAAATGGATCTCCAGAAATCAAACT 360
Db 1320 TAGCATGGAATAAACAAGCAATTTACATAGAGTTTAAATGGATCTCCAGAAATCAAACT 1379
QY 361 GAAAGAGTGAATGCTGGCTTACAAAACAAGAAAGAAACAAGAAATGGAGGAAGA 420
Db 1380 GAAAGAGTGAATGCTGGCTTACAAAACAAGAAAGAAACAAGAAATGGAGGAAGA 1439
QY 421 GCCTCTGGACCTGATCTCAGACCTTAAACGCCAAGTACACACATAGAGTCTTCA 480
Db 1440 GCCTCTGGACCTGATCTCAGACCTTAAACGCCAAGTACACACATAGAGTCTTCA 1499
QY 481 AGAAGATCTAGAACAAGCAAGTCAAGGTCAATCTCTCACTCACATGGTGGTGTAGT 540
Db 1500 AGAAGATCTAGAACAAGCAAGTCAAGGTCAATCTCTCACTCACATGGTGGTGTAGT 1559
QY 541 TGAATGAATCTAGTGGAGATCAGCAACTGCTGCTTTGGAAAGAACTTAAAGTATTGGG 600
Db 1560 TGAATGAATCTAGTGGAGATCAGCAACTGCTGCTTTGGAAAGAACTTAAAGTATTGGG 1619
QY 601 AGATCGATGGCAACATCTGTAGATGGACAGAGACCGCTGGGTTCTTTTACAAGACCA 660
Db 1620 AGATCGATGGCAACATCTGTAGATGGACAGAGACCGCTGGGTTCTTTTACAAGACCA 1679
QY 661 GCGTCACTAGCTCTGAGTGAACCACTATTGGAGCCTCTCTCACTCAAGTATGAGTATGGG 720
Db 1680 GCGTCACTAGCTCTGAGTGAACCACTATTGGAGCCTCTCTCACTCAAGTATGAGTATGGG 1739
QY 721 GGTGACACAACTGCTGTACTAAGAACTGCGATCTCCAACTAGAAATGCCATCTTC 780
Db 1740 GGTGACACAACTGCTGTACTAAGAACTGCGATCTCCAACTAGAAATGCCATCTTC 1799
QY 781 CTGTATGTTGGAGTACTACTATAGATTTACTCAACAGTCTCCCTGGACCTGGAAAA 840
Db 1800 CTGTATGTTGGAGTACTACTATAGATTTACTCAACAGTCTCCCTGGACCTGGAAAA 1859
QY 841 GTTCTTCCCTGGCTTACAGAGCTGAACAACCTGCCAATGTCTCTACAGGATGCTTACCG 900
Db 1860 GTTCTTCCCTGGCTTACAGAGCTGAACAACCTGCCAATGTCTCTACAGGATGCTTACCG 1919
QY 901 TAAAGAAAGGCTCTAGAGACTCCAAAGGAGTAAAGAGCTGATGAACAACTGGCAAGA 960
Db 1920 TAAAGAAAGGCTCTAGAGACTCCAAAGGAGTAAAGAGCTGATGAACAACTGGCAAGA 1979
QY 961 CTTCAAGGTGAATTCAGCTCACACAGATGTTTATCACAACTGGATGAACACAGCCA 1020
Db 1980 CTTCAAGGTGAATTCAGCTCACACAGATGTTTATCACAACTGGATGAACACAGCCA 2039
QY 1021 AAAATCTGAGATCCTCGAAGGTTCCGATGATGATGATGATGATGATGATGATGATGATGAT 1080
Db 2040 AAAATCTGAGATCCTCGAAGGTTCCGATGATGATGATGATGATGATGATGATGATGATGAT 2099
QY 1081 TAAATGAT 1140
Db 2100 TAAATGAT 2159
QY 1141 GGAAGCAGTGTCTACAGGAGGAGGCTGCTGACCTTTCTCTCAGGAACTTCTGCTGTG 1200
Db 2160 GGAAGCAGTGTCTACAGGAGGAGGCTGCTGACCTTTCTCTCAGGAACTTCTGCTGTG 2219
QY 1201 GCTACAGCTGAAAGATGATGATTAAGCCGAGGAGGAGGATTTGGAGGAGGATTTCCAGC 1260
Db 2220 GCTACAGCTGAAAGATGATGATTAAGCCGAGGAGGAGGATTTGGAGGAGGATTTCCAGC 2279
QY 1261 AGTTCAAGAGCAAGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1320
Db 2280 AGTTCAAGAGCAAGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2339

QY 1321 TCTAATCATGAGTACTCTTGCAGCTGTAGATATTTTCTGCAGAGACGCTTTTGGAGG 1380
Db 2340 TCTAATCATGAGTACTCTTGCAGCTGTAGATATTTTCTGCAGAGACGCTTTTGGAGG 2399
QY 1381 ACTAGAGAAACTCTTACCAGAGCCAGAGAGCTGCCTCCTGAGGAGAGAGCCAGAAATGT 1440
Db 2400 ACTAGAGAAACTCTTACCAGAGCCAGAGAGCTGCCTCCTGAGGAGAGAGCCAGAAATGT 2459
QY 1441 CACTCGGCTTCTAGAAAGCAGGCTGAGAGGTCATTAATCTGAGTGGGAAAAATTTGAACT 1500
Db 2460 CACTCGGCTTCTAGAAAGCAGGCTGAGAGGTCATTAATCTGAGTGGGAAAAATTTGAACT 2519
QY 1501 GCACCTCCCTGACCTGGCAGAGAAATAGATGAGACCTTGAAGACTCCAGAACTTCA 1560
Db 2520 GCACCTCCCTGACCTGGCAGAGAAATAGATGAGACCTTGAAGACTCCAGAACTTCA 2579
QY 1561 AGAGCCACGATGAGTGGACCTCAAGCTGGCCAAAGCTGAGTGTATCAAGGATCTG 1620
Db 2580 AGAGCCACGATGAGTGGACCTCAAGCTGGCCAAAGCTGAGTGTATCAAGGATCTG 2639
QY 1621 GCAGCCCTGGGCGATCTCTCAATGACTCTCTCCAGATCACTCGAGAAAGTCAAGGC 1680
Db 2640 GCAGCCCTGGGCGATCTCTCAATGACTCTCTCCAGATCACTCGAGAAAGTCAAGGC 2699
QY 1681 ACTTCGAGGAGAAATTTGGCCTCTGAAAGAGAACTGAGCCAGCTCAATGACTTGTCTG 1740
Db 2700 ACTTCGAGGAGAAATTTGGCCTCTGAAAGAGAACTGAGCCAGCTCAATGACTTGTCTG 2759
QY 1741 CCAGCTTACCATTGGGCATTGAGCTCTACCTGATTAACCTCAGACCTCTGGAAGACT 1800
Db 2760 CCAGCTTACCATTGGGCATTGAGCTCTACCTGATTAACCTCAGACCTCTGGAAGACT 2819
QY 1801 GAACACAGATGAGAGCTTCTGAGTGGCGCTGAGGAGCGGAGTCAAGCAGCTGCATGA 1860
Db 2820 GAACACAGATGAGAGCTTCTGAGTGGCGCTGAGGAGCGGAGTCAAGCAGCTGCATGA 2879
QY 1861 AGCCACAGGAGCTTTGGTCCAGCATCTCAGACCTTTCTTCCACGCTGTCCAGGGTCC 1920
Db 2880 AGCCACAGGAGCTTTGGTCCAGCATCTCAGACCTTTCTTCCACGCTGTCCAGGGTCC 2939
QY 1921 CTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTTACTATATCAACCCAGAGACTCAAC 1980
Db 2940 CTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTTACTATATCAACCCAGAGACTCAAC 2999
QY 1981 AACTTGTCTGGAGACCATCCCAAAATGACAGAGCTTACCAGTCTTTAGCTGACCTGAATAA 2040
Db 3000 AACTTGTCTGGAGACCATCCCAAAATGACAGAGCTTACCAGTCTTTAGCTGACCTGAATAA 3059
QY 2041 T 2041
Db 3060 T 3060

RESULT 2

US-09-845-416-28
; Sequence 28, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 28
; LENGTH: 4966
; TYPE: DNA
; ORGANISM: Homo sapiens

RESULT 3

US-09-845-416-34
; Sequence 34, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 34
; LENGTH: 4990
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-34

Query Match 100.0%; Score 2041; DB 12; Length 4990;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2041; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY	61	TGCTGAGACACATTCGACGACAGGAGAGATTCTTAATGATGTGGAAGTGGTGAAGA	120
DB	1861	TGCTGAGACACATTCGACGACAGGAGAGATTCTTAATGATGTGGAAGTGGTGAAGA	1920
QY	121	CGAGTTTCATCTCATGAGGGGTACATGATGATGATGATGATGATGATGATGATGATG	180
DB	1921	CGAGTTTCATCTCATGAGGGGTACATGATGATGATGATGATGATGATGATGATGATG	1980
QY	181	TAATATCTCAATTTGGGAAGTAAGCTGATTTGGACAGGAAATATCAGAGATGAAGA	240
DB	1981	TAATATCTCAATTTGGGAAGTAAGCTGATTTGGACAGGAAATATCAGAGATGAAGA	2040
QY	241	AACTGAAGTACAGACAGATGAATCTCTTAATTAAGATGGAATGCTCAGGGTAGC	300
DB	2041	AACTGAAGTACAGACAGATGAATCTCTTAATTAAGATGGAATGCTCAGGGTAGC	2100
QY	301	TAGCATGAAACAAAGCAATTTACATAGAGTTTAAATGATCTCCGAATCAGAAACT	360
DB	2101	TAGCATGAAACAAAGCAATTTACATAGAGTTTAAATGATCTCCGAATCAGAAACT	2160
QY	361	GAAAGATTGAATGACTGGCTACAAAACACAGAGAAACAAAGAAATGGAGGAAGA	420
DB	2161	GAAAGATTGAATGACTGGCTACAAAACACAGAGAAACAAAGAAATGGAGGAAGA	2220
QY	421	GCCTCTTGACCTGATCTTGAGACCTTAAAGCCCAAGTACAAACAAATAGTCTTCA	480
DB	2221	GCCTCTTGACCTGATCTTGAGACCTTAAAGCCCAAGTACAAACAAATAGTCTTCA	2280
QY	481	AGAAATCTAGAAACAAAGCAAGTCAAGGTCAATTTCTCCTCCTCCTCCTCCTCCTC	540
DB	2281	AGAAATCTAGAAACAAAGCAAGTCAAGGTCAATTTCTCCTCCTCCTCCTCCTCCTC	2340
QY	541	TGATGAATCTAGTGGATCAGCAACTGCTCTGTTTGAAGAACTTAAGGTATTGGG	600
DB	2341	TGATGAATCTAGTGGATCAGCAACTGCTCTGTTTGAAGAACTTAAGGTATTGGG	2400
QY	601	AGATCGATGGGCAACATCTGTAGATGGACAGACCGCTGGGTTCTTTTACAAAGCCA	660
DB	2401	AGATCGATGGGCAACATCTGTAGATGGACAGACCGCTGGGTTCTTTTACAAAGCCA	2460
QY	661	GCTGACCTAGCTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT	720
DB	2461	GCTGACCTAGCTCTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT	2520

QY	721	GGTGACACACCTCTGTGTACTTAAGAAACCTGCCATCTCCAAACTAGAAATGCCATCTTC	780
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QY	781	CTTGATGTGGAGGTACTACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGAAAA	840
DB	2581	CTTGATGTGGAGGTACTACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGAAAA	2640
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DB	2641	GTTTCTTGCTGGCTTACAGAAAGCTGAAACAACTGCCAATGTCTCTACAGATGCTACCGG	2700
QY	901	TAAGGAAAGGCTCCTAGAGAGCTCCAAAGGGAGTAAAGAGCTGATGAACATGTCGACAGA	960
DB	2701	TAAGGAAAGGCTCCTAGAGAGCTCCAAAGGGAGTAAAGAGCTGATGAACATGTCGACAGA	2760
QY	961	CCTCCAAGGTGAAATTTGAAGCTCACACAGATGTTTATCACAACTGGATGAAGAAACAGCCA	1020
DB	2761	CCTCCAAGGTGAAATTTGAAGCTCACACAGATGTTTATCACAACTGGATGAAGAAACAGCCA	2820
QY	1021	AAAAATCCTGAGATCCCTGGAGGTTCCGATGATGCGAGTCTCTTTTACAAGACGTTTGGG	1080
DB	2821	AAAAATCCTGAGATCCCTGGAGGTTCCGATGATGCGAGTCTCTTTTACAAGACGTTTGGG	2880
QY	1081	TAAATGAACTTCAAGTGGAGTGAACCTCGGAAAGAAAGTCTCAACATTAGTCCCATTT	1140
DB	2881	TAAATGAACTTCAAGTGGAGTGAACCTCGGAAAGAAAGTCTCAACATTAGTCCCATTT	2940
QY	1141	GGAGCCAGTTTCTGACCACTGGAAGGCTGTGCACCTTTCTCTGCAGAACTTCTGCTGTG	1200
DB	2941	GGAGCCAGTTTCTGACCACTGGAAGGCTGTGCACCTTTCTCTGCAGAACTTCTGCTGTG	3000
QY	1201	GCTACAGCTGAAACATGATGAATTAAGCCGCGCAGCCACCTATTGGAGGCGACTTTCCAGC	1260
DB	3001	GCTACAGCTGAAACATGATGAATTAAGCCGCGCAGCCACCTATTGGAGGCGACTTTCCAGC	3060
QY	1261	AGTTTCAAGACAGAACCATGATACATAGGCGCTTCAAGAGGGAATTTGAAACATAAGAAC	1320
DB	3061	AGTTTCAAGACAGAACCATGATACATAGGCGCTTCAAGAGGGAATTTGAAACATAAGAAC	3120
QY	1321	TGTAATCATAGTACTCTTGAGACTGTACGAATATTTTACACAGACGAGCTTTGGAAGG	1380
DB	3121	TGTAATCATAGTACTCTTGAGACTGTACGAATATTTTACACAGACGAGCTTTGGAAGG	3180
QY	1381	ACTAGAGAACTCTACACAGAGCCCGCAGAGCTGCTCTGAGAGAGAGCCCGCAAGTGT	1440
DB	3181	ACTAGAGAACTCTACACAGAGCCCGCAGAGCTGCTCTGAGAGAGAGCCCGCAAGTGT	3240
QY	1441	CACTCGGCTTCTAGAAAGCAGGCTGAGGAGTCAATACTGAGTGGGAAAAATTTGAAACCT	1500
DB	3241	CACTCGGCTTCTAGAAAGCAGGCTGAGGAGTCAATACTGAGTGGGAAAAATTTGAAACCT	3300
QY	1501	GCATCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTTGAAGACTCCAGAACTTCA	1560
DB	3301	GCATCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTTGAAGACTCCAGAACTTCA	3360
QY	1561	AGAGCCGAGGATGAGTGGACCTCAAGCTGCGCCCAAGCTGAGTGAATCAAGGATCTCTG	1620
DB	3361	AGAGCCGAGGATGAGTGGACCTCAAGCTGCGCCCAAGCTGAGTGAATCAAGGATCTCTG	3420
QY	1621	GGAGCCGCTGGCGGATCTCTCAATGACTCTCTTCCAGATCACTCGAGAAAGTCAAGGC	1680
DB	3421	GGAGCCGCTGGCGGATCTCTCTCAATGACTCTCTTCCAGATCACTCGAGAAAGTCAAGGC	3480
QY	1681	ACTTCGAGAGAAATTCGGCTCTGAAAGAGAACTGAGCCAGCTCAATGACTTGTCTCG	1740
DB	3481	ACTTCGAGAGAAATTCGGCTCTGAAAGAGAACTGAGCCAGCTCAATGACTTGTCTCG	3540
QY	1741	CGAGCTTACCCTTTGGGCAATTCAGCTCTCACCCTTAACCTCAGACACTCTGAGAGACT	1800
DB	3541	CGAGCTTACCCTTTGGGCAATTCAGCTCTCACCCTTAACCTCAGACACTCTGAGAGACT	3600

QY 1501 GCACCTCCGCTGACTGCGAGAGAAAATAGATGAGACCCCTTGAGAGACTCCAGGACTCA 1560
 |||||
 Db 2379 GCACCTCCGCTGACTGCGAGAGAAAATAGATGAGACCCCTTGAGAGACTCCAGGACTCA 2438
 |||||
 QY 1561 AGAGCCACGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1620
 |||||
 Db 2439 AGAGCCACGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 2498
 |||||
 QY 1621 GCAGCCGCTGGCGGATCTCTCATGACTCTCTCCAGATCACTCGAGAAAGTCAAGGC 1680
 |||||
 Db 2499 GCAGCCGCTGGCGGATCTCTCATGACTCTCTCCAGATCACTCGAGAAAGTCAAGGC 2558
 |||||
 QY 1681 ACTTCGAGAGAAATGCGCCTCTGAAGAGAGAGTGAAGAGAGAGTGAAGAGAGTGAAGAGAG 1740
 |||||
 Db 2559 ACTTCGAGAGAAATGCGCCTCTGAAGAGAGAGTGAAGAGAGAGTGAAGAGAGTGAAGAGAG 2618
 |||||
 QY 1741 CCAGCTTACCACTTTGGGCACTTCAGCTCTCACCGTATATACCTCAGCACTCTGGAAGACCT 1800
 |||||
 Db 2619 CCAGCTTACCACTTTGGGCACTTCAGCTCTCACCGTATATACCTCAGCACTCTGGAAGACCT 2678
 |||||
 QY 1801 GAACACAGATGAAGCTCTGAGGTGGCGTGGAGGACCGAGTCAGGAGTGCATGA 1860
 |||||
 Db 2679 GAACACAGATGAAGCTCTGAGGTGGCGTGGAGGACCGAGTCAGGAGTGCATGA 2738
 |||||
 QY 1861 AGCCACAGGAGTGTGGTCCAGCATCTCAGCACTTTCTTCCACGCTCTGTCCAGGCTCC 1920
 |||||
 Db 2739 AGCCACAGGAGTGTGGTCCAGCATCTCAGCACTTTCTTCCACGCTCTGTCCAGGCTCC 2798
 |||||
 QY 1921 CTGGGAGAGAGCCATCTGCGCAACAAAGTGCCTTACTATATCAACACGAGACTCAAAAC 1980
 |||||
 Db 2799 CTGGGAGAGAGCCATCTGCGCAACAAAGTGCCTTACTATATCAACACGAGACTCAAAAC 2858
 |||||
 QY 1981 RACTGTGTGGAGCCATCCCAATGACAGAGCTCTACAGCTTTTACGTGACCTGAATAA 2040
 |||||
 Db 2859 RACTGTGTGGAGCCATCCCAATGACAGAGCTCTACAGCTTTTACGTGACCTGAATAA 2918
 |||||
 QY 2041 T 2041
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 Db 2919 T 2919

RESULT 5

US-09-845-416-29
 ; Sequence 29, Application US/09845416
 ; Publication No. US20030171312A1
 ; GENERAL INFORMATION:
 ; APPLICANT: XIAO, XIAO
 ; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
 ; TITLE OF INVENTION: THEREOF
 ; FILE REFERENCE: DEL142
 ; CURRENT APPLICATION NUMBER: US/09/845,416
 ; PRIOR FILING DATE: 2001-04-30
 ; PRIOR APPLICATION NUMBER: 60/200,777
 ; PRIOR FILING DATE: 2000-04-28
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 29
 ; LENGTH: 4825
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-09-845-416-29

Query Match 85.78; Score 1749; DB 12; Length 4825;
 Best Local Similarity 93.18; Pred. No. 0;
 Matches 1900; Conservative 0; Mismatches 0; Indels 141; Gaps 1;

QY 1 TGAAGTAAACCTGAGCCTTATCAACAGCTTTAGAGAAAGTATTATCGCTCTCTTC 60
 |||||
 Db 1777 TGAAGTAAACCTGAGCCTTATCAACAGCTTTAGAGAAAGTATTATCGCTCTCTTC 1836
 |||||
 QY 61 TCCTGAGACACATTCGAAGCAAGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 120
 |||||
 Db 1837 TCCTGAGACACATTCGAAGCAAGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 1896
 |||||

QY 121 CCAGTTTCATCTACTCATGAGGGGTACATGATGGATTTGACAGCCCATCATGAGGGCCGGTTGG 180
 |||||
 Db 1897 CCAGTTTCATCTACTCATGAGGGGTACATGATGGATTTGACAGCCCATCATGAGGGCCGGTTGG 1956
 |||||
 QY 181 TAAATTTCTCAATTTGGGAGTAAAGTGAATGGAACAGGAAAATTTATCAGAAGATGAAGA 240
 |||||
 Db 1957 TAAATTTCTCAATTTGGGAGTAAAGTGAATGGAACAGGAAAATTTATCAGAAGATGAAGA 2016
 |||||
 QY 241 AACTGAAGTACAGAGCAGATGAATCTCTTAAATCAAGATGGAATGCTCAGGGTAGC 300
 |||||
 Db 2017 AACTGAAGTACAGAGCAGATGAATCTCTTAAATCAAGATGGAATGCTCAGGGTAGC 2076
 |||||
 QY 301 TAGCATGAAAAACAAAGCAATTTACATAGAGTTTTAATGATCTCCGAATCAGAACT 360
 |||||
 Db 2077 TAGCATGAAAAACAAAGCAATTTACATAGAGTTTTAATGATCTCCGAATCAGAACT 2136
 |||||
 QY 361 GAAAGAGTTGAATGACTTGGCTTAAACAAACAGAGAAAGAACAGAAAATGGAGGAAGA 420
 |||||
 Db 2137 GAAAGAGTTGAATGACTTGGCTTAAACAAACAGAGAAAGAACAGAAAATGGAGGAAGA 2196
 |||||
 QY 421 GCGTCTTGGAGCTGATCTTGAAGACCTTAAACGCCAAGTACAAACAATAAGGTGCTTTCA 480
 |||||
 Db 2197 GCGTCTTGGAGCTGATCTTGAAGACCTTAAACGCCAAGTACAAACAATAAGGTGCTTTCA 2256
 |||||
 QY 481 AGAAGATCTAGAACAGAAACAAGTCAGGGTCAATTTCTCCTACATCATGTTGGTGGTAGT 540
 |||||
 Db 2257 AGAAGATCTAGAACAGAAACAAGTCAGGGTCAATTTCTCCTACATCATGTTGGTGGTAGT 2316
 |||||
 QY 541 TGATGAATCTAGTGGAGTACAGCAACTGCTGTTTGAAGAAACAACCTTAAAGTATTGGG 600
 |||||
 Db 2317 TGATGAATCTAGTGGAGTACAGCAACTGCTGTTTGAAGAAACAACCTTAAAGTATTGGG 2376
 |||||
 QY 601 AGATCGATGGCAACATCTGTAGATGGACAGAGACCGCTGGGTCTTTTACAGAGCCA 660
 |||||
 Db 2377 AGATCGATGGCAACATCTGTAGATGGACAGAGACCGCTGGGTCTTTTACAGAGCCA 2434
 |||||
 QY 661 GCGTGAOCTAGCTCCTGGACTGACCACTATTGGAGCCTCTCTACTCAGACTGTTACTCT 720
 |||||
 Db 2435 ----- 2434
 |||||
 QY 721 GGTGACACACCTGTGGTTTACTAAGSAAACTGCCATCTCCAAACTAGAAATGCCATCTTC 780
 |||||
 Db 2435 ----- 2434
 |||||
 QY 781 CTTGATGTTGGAGGTACCTTACTTACTTACTTACTTACTTACTTACTTACTTACTTACTTACT 840
 |||||
 Db 2435 -----ACTCATAGATTACTTCAACAGCTTCCCTCTGGAGCTGGAAAA 2475
 |||||
 QY 841 GTTCTTCTGCTGCTTACAGAGCTGAAACAACCTGCCAATGTCTTACAGAGTGTCTACCCG 900
 |||||
 Db 2476 GTTCTTCTGCTGCTTACAGAGCTGAAACAACCTGCCAATGTCTTACAGAGTGTCTACCCG 2535
 |||||
 QY 901 TAAGGAAAGGCTCCTAGAGACTTCAAGAGGAGTAAAAGAGCTGATGAAACAATGCAAGA 960
 |||||
 Db 2536 TAAGGAAAGGCTCCTAGAGACTTCAAGAGGAGTAAAAGAGCTGATGAAACAATGCAAGA 2595
 |||||
 QY 961 CTTCCAAGGTGAAATTTGAAGCTCAGCTCAGAGATGTTTATCAACAACCTGGATGAAACAGCCA 1020
 |||||
 Db 2596 CTTCCAAGGTGAAATTTGAAGCTCAGCTCAGAGATGTTTATCAACAACCTGGATGAAACAGCCA 2655
 |||||
 QY 1021 AAAATCTGAGATCCCTGGAGGTTCCGATGATGCGAGTCTCTTACAAGACGTTTGGGA 1080
 |||||
 Db 2656 AAAATCTGAGATCCCTGGAGGTTCCGATGATGCGAGTCTCTTACAAGACGTTTGGGA 2715
 |||||
 QY 1081 TAACATGAACCTCAAGTGGAGTGAACCTTCGGGAAAAAGTCTCTCAACATTAGTCCCATTT 1140
 |||||
 Db 2716 TAACATGAACCTCAAGTGGAGTGAACCTTCGGGAAAAAGTCTCTCAACATTAGTCCCATTT 2775
 |||||
 QY 1141 GGAAGCCAGTTTCTGACAGTGGAGCGTCTGCACCTTTCTCTCGAGGAATTTCTTGGTGTG 1200
 |||||
 Db 2776 GGAAGCCAGTTTCTGACAGTGGAGCGTCTGCACCTTTCTCTCGAGGAATTTCTTGGTGTG 2835
 |||||

QY	1201	GCTACAGCTGAAGAATGATGAAATTAAAGCCGGCAGCAGCACTTAATTGGAGGGCAGCTTTCCAGC	1261
Db	2836	GCTACAGCTGAAGAATGATGAAATTAAAGCCGGCAGCAGCACTTAATTGGAGGGCAGCTTTCCAGC	2895
QY	1261	AGTTCAGAGCAGACGATGTACATAGAGGCGCTTCAAGAGGGAATTTGAAACTTAAGAAGACC	1320
Db	2896	AGTTTCAGAGCAGACGATGTACATAGAGGCGCTTCAAGAGGGAATTTGAAACTTAAGAAGACC	2955
QY	1321	TGTAATCATGAGTACTCTTTGAGACTGTACGAATATTTCTGACAGACGACGCTTTTGGAAGG	1380
Db	2956	TGTAATCATGAGTACTCTTTGAGACTGTACGAATATTTCTGACAGACGACGCTTTTGGAAGG	3015
QY	1381	ACTAGAGAAACTCTTACAGAGAGCCGACAGAGCTGCCCTCTGAGGAGAGAGCCGCAATGT	1440
Db	3016	ACTAGAGAAACTCTTACAGAGAGCCGACAGAGCTGCCCTCTGAGGAGAGAGCCGCAATGT	3075
QY	1441	CACCTCGGCTTCTACGAAGACGAGGCTGAGGAGCTCAATACTGAGTGGGAAAAAATTTGAACCT	1500
Db	3076	CACCTCGGCTTCTACGAAGACGAGGCTGAGGAGCTCAATACTGAGTGGGAAAAAATTTGAACCT	3135
QY	1501	GCACCTCCGCTGACTGGCAGAGAAATAATAGATGAGACCCCTTGAAGAGACTCCAGGAACCTTCA	1560
Db	3136	GCACCTCCGCTGACTGGCAGAGAAATAATAGATGAGACCCCTTGAAGAGACTCCAGGAACCTTCA	3195
QY	1561	AGAGGCCACGGATGAGCTTGACCTCAAGCTGCGCCAGAGCTGAGTGATCAAGGGATCTCG	1620
Db	3196	AGAGGCCACGGATGAGCTTGACCTCAAGCTGCGCCAGAGCTGAGTGATCAAGGGATCTCG	3255
QY	1621	GCAGCCCGTGGCGATCTCCTCATTTGACTCTCTCCAGATCACTCGAGAAAGTCAAGGC	1680
Db	3256	GCAGCCCGTGGCGATCTCCTCATTTGACTCTCTCCAGATCACTCGAGAAAGTCAAGGC	3315
QY	1681	ACTTCGAGAGAAATTTGGCCTCTGAAAGAGAAAGTGGAGCCAGCTCAATGACCTTTGCTCG	1740
Db	3316	ACTTCGAGAGAAATTTGGCCTCTGAAAGAGAAAGTGGAGCCAGCTCAATGACCTTTGCTCG	3375
QY	1741	CCAGCTTACCATTTTGGGCATTGAGCTCTCACCGTATAACCTCAGCACCTCTCGAAGACCT	1800
Db	3376	CCAGCTTACCATTTTGGGCATTGAGCTCTCACCGTATAACCTCAGCACCTCTCGAAGACCT	3435
QY	1801	GAACACAGATGGAGCTTTCTGAGGTGGCCCTCGAGGACCGAGTCAAGCAGCTGCATGA	1860
Db	3436	GAACACAGATGGAGCTTTCTGAGGTGGCCCTCGAGGACCGAGTCAAGCAGCTGCATGA	3495
QY	1861	AGCCACAGGACTTTGGCTCCAGATCTCAGCACCTTTCTTCCAGCTCTGCCAGGCTCC	1920
Db	3496	AGCCACAGGACTTTGGCTCCAGATCTCAGCACCTTTCTTCCAGCTCTGCCAGGCTCC	3555
QY	1921	CTGGGAGAGGCCATCTCGGCAACAAGATGCCCTTACTATATCAACCCAGAGACTCAAC	1980
Db	3556	CTGGGAGAGGCCATCTCGGCAACAAGATGCCCTTACTATATCAACCCAGAGACTCAAC	3615
QY	1981	AACCTTGTGGGACCATCCCAAAATGACAGAGCTCTACCAAGCTTTTACCTGACCTCAATA	2040
Db	3616	AACCTTGTGGGACCATCCCAAAATGACAGAGCTCTACCAAGCTTTTACCTGACCTCAATA	3675
QY	2041	T 2041	
Db	3676	T 3676	

RESULT 6

US-09-845-416-35
; Sequence 35, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DEL1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777

[illegible]


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QY 601 AGATCGATGGCAACATCTGTAGATGGACAGAGACCGCTGGGTTCTTTTACAAGACCA 660
DB 2612 AGATCGATGGCAACATCTGTAGATGGACAGAGACCGCTGGGTTCTTTTACAAGAC-- 2669
QY 661 GCCTGACCTAGCTCCTGGACTGCACACTATTGGAGCCTCTCCTACTCAGACTGTTACTCT 720
DB 2670 ----- 2669
QY 721 GGTGACACAACTGTGGTTACTAAGGAAACTGCCATCTCAAACATAGAAATGCCATCTTC 780
DB 2670 ----- 2669
QY 781 CTTGATGTTGGAGGTACTACTACTATGATATGCAACAGTTCCTCCCTGACCTTGAANA 840
DB 2670 -----ACTCATGATTACTGCAACAGTTCCTCCCTGACCTTGAANA 2710
QY 841 GTTTCCTGCTGCTTACAGAACTGAAACAACTGCCAATGTCCTACAGGATGCTACCG 900
DB 2711 GTTTCCTGCTGCTTACAGAACTGAAACAACTGCCAATGTCCTACAGGATGCTACCG 2770
QY 901 TAAGAAAGGCTCTAGAAAGCTCCAAAGGAGTAAAGAGCTGATGAAACAATGGCAAGA 960
DB 2771 TAAGAAAGGCTCTAGAAAGCTCCAAAGGAGTAAAGAGCTGATGAAACAATGGCAAGA 2830
QY 961 CTCCAAAGGTGAAATGAACTACACAGATGTTTATCACAACTGGATGAAACAGCCA 1020
DB 2831 CTCCAAAGGTGAAATGAACTACACAGATGTTTATCACAACTGGATGAAACAGCCA 2890
QY 1021 AAAAACTCTGAGATCCCTGGAAGTTCGGATGATGATGCTCTGTTTACAAAAGCTTTGGA 1080
DB 2891 AAAAACTCTGAGATCCCTGGAAGTTCGGATGATGATGCTCTGTTTACAAAAGCTTTGGA 2950
QY 1081 TACATGAACTTCAAGTGGAGTGAACCTCGAAAAAGTCTCTCAACATGATGCTCCCATTT 1140
DB 2951 TACATGAACTTCAAGTGGAGTGAACCTCGAAAAAGTCTCTCAACATGATGCTCCCATTT 3010
QY 1141 GGAAGCACTCTGACCAAGTGGAGGCTGACCTTTCTGCGAGGAATCTTGCTG 1200
DB 3011 GGAAGCACTCTGACCAAGTGGAGGCTGACCTTTCTGCGAGGAATCTTGCTG 3070
QY 1201 GCTACAGCTGAAAGATGATGAATTAAGCGGAGGACCTATTGAGGCGCACTTTCCAGC 1260
DB 3071 GCTACAGCTGAAAGATGATGAATTAAGCGGAGGACCTATTGAGGCGCACTTTCCAGC 3130
QY 1261 AGTTCAGAGCAGACAGATGTACATAGGCGCTTCAGAGGGAATGAAACTAAGAAC 1320
DB 3131 AGTTCAGAGCAGACAGATGTACATAGGCGCTTCAGAGGGAATGAAACTAAGAAC 3190
QY 1321 TGTAACTCATGACTCTTGTGAGCTGTACGAATATTCTGACAGAGCGCTTTGGAAG 1380
DB 3191 TGTAACTCATGACTCTTGTGAGCTGTACGAATATTCTGACAGAGCGCTTTGGAAG 3250
QY 1381 ACTAGAGAACTCTACAGAGAGCCAGAGAGCTGCTCTGAGGAGAGAGCCAGAAATGT 1440
DB 3251 ACTAGAGAACTCTACAGAGAGCCAGAGAGCTGCTCTGAGGAGAGAGCCAGAAATGT 3310
QY 1441 CACTCGGCTTCTACAAAGAGGCTGAGGAGGTCAATCTGAGTGGGAAAATTTGAACCT 1500
DB 3311 CACTCGGCTTCTACAAAGAGGCTGAGGAGGTCAATCTGAGTGGGAAAATTTGAACCT 3370
QY 1501 GCATCCGCTGACTGGCAGAGAAAATAGATGAGACCTTTGAAGACTTCCAGGAATCTCA 1560
DB 3371 GCATCCGCTGACTGGCAGAGAAAATAGATGAGACCTTTGAAGACTTCCAGGAATCTCA 3430
QY 1561 AGAGGCCAGGATGAGCTGAGCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCCCTG 1620
DB 3431 AGAGGCCAGGATGAGCTGAGCTCAAGCTGCGCCAAAGCTGAGGTGATCAAGGGATCCCTG 3490
QY 1621 GCAGCCGCTGGGCGATCTCCCTCATGCTCTCTCCAGATACCTCTCAGAAAGTCAAGC 1680
DB 3491 GCAGCCGCTGGGCGATCTCCCTCATGCTCTCTCCAGATACCTCTCAGAAAGTCAAGC 3550
QY 1681 ACTTCGAGGAGAAATTCGCGCTCTGAAAGAGAACTGAGCCACGCTCAATGACCTTGCTCG 1740
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DB 3551 ACTTCGAGAGAAATTCGCGCTCTGAAAGAGAACTGAGCCACGCTCAATGACCTTGCTCG 3610
QY 1741 CCAGCTTACCACTTTGGGCACTTACGCTCTCACGTTATAACCTCAGCACTCTGGAAGACT 1800
DB 3611 CCAGCTTACCACTTTGGGCACTTACGCTCTCACGTTATAACCTCAGCACTCTGGAAGACT 3670
QY 1801 GAACACCAAGATGGAAGCTTTCGAGGTGGCGCTGAGGAGCCGAGTCAAGCAGCTGCATGA 1860
DB 3671 GAACACCAAGATGGAAGCTTTCGAGGTGGCGCTGAGGAGCCGAGTCAAGCAGCTGCATGA 3730
QY 1861 ASCCCACAGAGACTTTGGTCCAGCACTCTCAGCACTCTTTTCCACGCTCTCCAGGCTCC 1920
DB 3731 AGCCACAGAGGACTTTGGTCCAGCACTCTCAGCACTCTTTTCCAGGCTCTCCAGGCTCC 3790
QY 1921 CTGGAGAGAGCACTCTCGCCAAACAAAGTGGCCCTACTATATCAACACGAGACTCAAAAC 1980
DB 3791 CTGGAGAGAGCACTCTCGCCAAACAAAGTGGCCCTACTATATCAACACGAGACTCAAAAC 3850
QY 1981 AACTTCTGGGACCAATCCCAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGATAA 2040
DB 3851 AACTTCTGGGACCAATCCCAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGATAA 3910
QY 2041 T 2041
DB 3911 T 3911

RESULT 8
US-09-845-416-2
; Sequence 2, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4182
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-2

Query Match 83.4%; Score 1702.8; DB 12; Length 4182;
Best Local Similarity 88.5%; Pred. No. 0;
Matches 1969; Conservative 0; Mismatches 72; Indels 183; Gaps 4;

QY 1 TGAAGTAAACCTGGACCGCTTATCAACAGCTTTAGAGAAGTATTATCGTGGCTTTCTTC 60
DB 1020 TGAAGTAAACCTGGACCGCTTATCAACAGCTTTAGAGAAGTATTATCGTGGCTTTCTTC 1079
QY 61 TGCTGAGACACATTCGCAAGCACAAGGAGAGATTTCTATGATGTGGAAGTGTGGAAGA 120
DB 1080 TGCTGAGACACATTCGCAAGCACAAGGAGAGATTTCTATGATGTGGAAGTGTGGAAGA 1139
QY 121 CCAGTTTCTACTCATGAGGAGTACATGATGATTTGACAGCCCATCAGGCGCGGTTGG 180
DB 1140 CCAGTTTCTACTCATGAGGAGTACATGATGATTTGACAGCCCATCAGGCGCGGTTGG 1199
QY 181 TAATATTTACAATTTGGGAAGTAAAGCTGATTGGAACAGGAAAATTTATCAGAAGATGA 240
DB 1200 TAATATTTACAATTTGGGAAGTAAAGCTGATTGGAACAGGAAAATTTATCAGAAGATGA 1259
QY 241 AACTGAAGTACAGAGCAGATGATATCTCCATAATTCAGATGGGAATGCCCTCAGGGTAGC 300
DB 1260 AACTGAAGTACAGAGCAGATGATATCTCCATAATTCAGATGGGAATGCCCTCAGGGTAGC 1319
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301 TAGCATGAAACAAACAAATTTATAGATCTCCAGAACTCA 360
1320 TAGCATGAAACAAACAAATTTATAGATCTCCAGAACTCA 1379
361 GAAAGAGTTGAATGACTGCTTAACAAACAAAGAAAGAAATGGAGGA 420
1380 GAAAGAGTTGAATGACTGCTTAACAAACAAAGAAAGAAATGGAGGA 1439
421 GCCTTTGGAGCTGATCTTGAAGACCTTAAGCCAGTACACACATTAAGTCTCA 480
1440 GCCTTTGGAGCTGATCTTGAAGACCTTAAGCCAGTACACACATTAAGTCTCA 1499
481 AGAAGATCTAGAACAAACAACTCAGGTCATTTCTCACTACACATGCTGTAGT 540
1500 AGAAGATCTAGAACAAACAACTCAGGTCATTTCTCACTACACATGCTGTAGT 1559
541 TGATGAATCTAGTGGAGATCACCAACTGCTGCTTTGGAAGAACTTAAGTATGG 600
1560 TGATGAATCTAGTGGAGATCACCAACTGCTGCTTTGGAAGAACTTAAGTATGG 1619
601 AGATGATGGCAACATCTGTAGATGGACAGAACCGCTGGTCTTTTACAAGACA 660
1620 AGATGATGGCAACATCTGTAGATGGACAGAACCGCTGGTCTTTTACAAGACA 1679
661 GCTGAC -----CTAGCTCTGGACTGACCACTATTGGAGCCTCTCTACTCA 708
1680 CTTCTCAATGGCAAGCTTTACTGAAGACAGTGCCTTTTAGTGCATGCTTCA 1739
709 GACTGTTACTTGTGTACACA -----ACCTGTTGTTACTTAAGAACTGGCATCTC 759
1740 AAAAAGAGATGAGTGAACAAAGATTCACACAACTGGCTTTAAAGATCAAAATGTT 1799
760 ----- 759
1800 ATCAAGTCTCAAAACTGGCCGTTTTAAAGCGGATCTAGAAAGAAAGCAATCCAT 1859
760 -----CAACTAGAAATGCCATCTTCCCTGATGTTGGAG ----- 793
1860 GGGCAACTGATTCACCTCAACAAAGATCTTCTTCACTGAAAGATGATCAGTAC 1919
794 ----- 793
1920 CCAGAAGCGGAAGCATGGCTGGATAACTTGCCTGGTGGTGGATAATTTAGTCCAAA 1979
794 -----GTACTACTATAGATTACTGCAACAGTTCCCTCCCTGGAGCTGGA 837
1980 ACTTGAAGAGTACAGACAGACTCATAGATTCTGCAACAGTTCCCTCCCTGGAGCTGGA 2039
838 AAAGTTTCTGCTGGCTTACAGAAGCTGAAACAACTGCCAATGCTCCTACAGGATGCTAC 897
2040 AAAGTTTCTGCTGGCTTACAGAAGCTGAAACAACTGCCAATGCTCCTACAGGATGCTAC 2099
898 CCGTAAGGAAGGCTCTAGAACACTCCAGGAGTAAAGAGCTGATGAACAAATGGA 957
2100 CCGTAAGGAAGGCTCTAGAACACTCCAGGAGTAAAGAGCTGATGAACAAATGGA 2159
958 AGACCTCCAGGTGAATTTAAGCTCACACAGATTTTATCACAACTGGATGAAACAG 1017
2160 AGACCTCCAGGTGAATTTAAGCTCACACAGATTTTATCACAACTGGATGAAACAG 2219
1018 CCAAAATCTTGAGATCCCTGGAGGTTCCGATGATCAGTCTCTGTACAAAGAGTTT 1077
2220 CCAAAATCTTGAGATCCCTGGAGGTTCCGATGATCAGTCTCTGTACAAAGAGTTT 2279
1078 GGATACATGACTTCAAGTGGAGTGAAGTGGAAAAAGTCTCTCACTATAGTCCCA 1137
2280 GGATACATGACTTCAAGTGGAGTGAAGTGGAAAAAGTCTCTCACTATAGTCCCA 2339
1138 TTTGGAAGCCAGTTCTGACAGTGGAGGCTGCAACCTTTCTGCAAGGAATCTGCT 1197
2340 TTTGGAAGCCAGTTCTGACAGTGGAGGCTGCAACCTTTCTGCAAGGAATCTGCT 2399
1198 GTGGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGCACCTATTGGAGGCGACTTCC 1257

2400 GTGGCTACAGCTGAAGATGATTAAGCCGAGCGACCTATTGGAGGCGACTTCC 2459
1258 AGCAGTTTCAAGAGCAGAACGATGATAGAGGCTCTCAAGAGGAATTAAGAACTAAAGA 1317
2460 AGCAGTTTCAAGAGCAGAACGATGATAGAGGCTCTCAAGAGGAATTAAGAACTAAAGA 2519
1318 ACCTCTAATCATGATGACTCTTCAAGAGCTGATAGATATTTCTGACAGACGACCTTTGGA 1377
2520 ACCTCTAATCATGATGACTCTTCAAGAGCTGATAGATATTTCTGACAGACGACCTTTGGA 2579
1378 AGGACTTAGAGAACTCTTACCAGAGCCAGAGAGTGCCTCTGAGAGAGAGCCAGAA 1437
2580 AGGACTTAGAGAACTCTTACCAGAGCCAGAGAGTGCCTCTGAGAGAGAGCCAGAA 2639
1438 TGTCACTCGGCTTACAGAAAGCAGGCTGAGAGGTCATACTGAGTGGGAAAAATTTGAA 1497
2640 TGTCACTCGGCTTACAGAAAGCAGGCTGAGAGGTCATACTGAGTGGGAAAAATTTGAA 2699
1498 CTTGCACTCCGCTGACTGCGAGAGAAATAGATGAGACCCCTTCAAGAGCTCCAGAACT 1557
2700 CTTGCACTCCGCTGACTGCGAGAGAAATAGATGAGACCCCTTCAAGAGCTCCAGAACT 2759
1558 TCAAGAGGCCACGATGAGTGCACCTCAAGCTGCGCCAGCTGAGTGCATCAAGGGATC 1617
2760 TCAAGAGGCCACGATGAGTGCACCTCAAGCTGCGCCAGCTGAGTGCATCAAGGGATC 2819
1618 CTGGCAGCCGCTGGGCGATCTCTCAATGACTCTCTCCAGATCACTCCGAGAAAGTCAA 1677
2820 CTGGCAGCCGCTGGGCGATCTCTCAATGACTCTCTCCAGATCACTCCGAGAAAGTCAA 2879
1678 GGCATCTGAGAGAAATTCGCTCTGAAAGAGAACTGAGCCAGCTCAATGACTTGC 1737
2880 GGCATCTGAGAGAAATTCGCTCTGAAAGAGAACTGAGCCAGCTCAATGACTTGC 2939
1738 TGGCAGCTTACCCTTTGGGCACTTCCAGCTCTCACCGTATTAACCTCAGCAGCTCTGGAAGA 1797
2940 TGGCAGCTTACCCTTTGGGCACTTCCAGCTCTCACCGTATTAACCTCAGCAGCTCTGGAAGA 2999
1798 CTGGAACACAGATGGAAGCTTCTGAGTGGCCCTGAGGAGCGAGTACGAGGAGCTGCA 1857
3000 CTGGAACACAGATGGAAGCTTCTGAGTGGCCCTGAGGAGCGAGTACGAGGAGCTGCA 3059
1858 TGAAGCCACAGGAGCTTGGTCCAGATCTCAGCAGCTTTCTTCCAGCTCTGTCCAGGG 1917
3060 TGAAGCCACAGGAGCTTGGTCCAGATCTCAGCAGCTTTCTTCCAGCTCTGTCCAGGG 3119
1918 TCCCTGGGAGAGCCATCTCGCCAAACAAAGTGCCTTACTATATCAACCCAGAGACTCA 1977
3120 TCCCTGGGAGAGCCATCTCGCCAAACAAAGTGCCTTACTATATCAACCCAGAGACTCA 3179
1978 AACAACTGCTGGGAGCCATCCAAATGACAGAGCTCTACAGGCTTTAGCTGAGCTGAA 2037
3180 AACAACTGCTGGGAGCCATCCAAATGACAGAGCTCTACAGGCTTTAGCTGAGCTGAA 3239
2038 TAAT 2041
3240 TAAT 3243

RESULT 9

US-09-845-416-27
; Sequence 27, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIHO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28

; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 5149
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-27

Query Match 83.4%; Score 1702.8; DB 12; Length 5149;
Best Local Similarity 88.5%; Pred. No. 0;
Matches 1969; Conservative 0; Mismatches 72; Indels 183; Gaps 4;

QY 1 TGAAGTAAACCTGACCGTTATCAACACAGCTTTAGAGAGATTTATCGTGGCTTCTTC 60
Db 1777 TGAAGTAAACCTGACCGTTATCAACACAGCTTTAGAGAGATTTATCGTGGCTTCTTC 1836

QY 61 TGCTGAGACACATTCACAGCACAAAGGAGAGATTTCTAATGATGTGGAGTGGTGAAGA 120
Db 1837 TGCTGAGGACACATTCACAGCACAAAGGAGAGATTTCTAATGATGTGGAGTGGTGAAGA 1896

QY 121 CCAGTTTCATACCTCAGAGGGGTACATGATGATTTGACAGCCCATCAGGCGCGGTTGG 180
Db 1897 CCAGTTTCATACCTCAGAGGGGTACATGATGATTTGACAGCCCATCAGGCGCGGTTGG 1956

QY 181 TAATATTCTCAATTTGGGAAGTAAGCTGATTGGAACAGAGAAATTTATCAGAAAGATGAAGA 240
Db 1957 TAATATTCTCAATTTGGGAAGTAAGCTGATTGGAACAGAGAAATTTATCAGAAAGATGAAGA 2016

QY 241 AACTGAAGTCAAGACAGAGATGAATCTCTAAATTTCAAGATGGGAATCCCTCAGGTPAG 300
Db 2017 AACTGAAGTCAAGACAGAGATGAATCTCTAAATTTCAAGATGGGAATCCCTCAGGTPAG 2076

QY 301 TAGCATGGAACAAACAGCAATTTACATAGAGTTTAAATGGATCTCCAGAAATCAGAACT 360
Db 2077 TAGCATGGAACAAACAGCAATTTACATAGAGTTTAAATGGATCTCCAGAAATCAGAACT 2136

QY 361 GAAAGAGTTGAATGACTGTCTAACAAAAACAGAGAAAGAAACAGAGAAATTTGAGGAGAA 420
Db 2137 GAAAGAGTTGAATGACTGTCTAACAAAAACAGAGAAAGAAACAGAGAAATTTGAGGAGAA 2196

QY 421 GCCTCTTGACCTGATCTTGAAGACCTTAAACGCCAAGTACAAACATATAAGTGTCTCA 480
Db 2197 GCCTCTTGACCTGATCTTGAAGACCTTAAACGCCAAGTACAAACATATAAGTGTCTCA 2256

QY 481 AGAAGATCTAGAACAGAACAGTCAAGGTCAATTTCTCACTCACTAGTGTGGTGTAGT 540
Db 2257 AGAAGATCTAGAACAGAACAGTCAAGGTCAATTTCTCACTCACTAGTGTGGTGTAGT 2316

QY 541 TGATGAATCTAGTGGAGATCACGCACTGTCTTTGGAAGAACAACTTAAGTATTGGG 600
Db 2317 TGATGAATCTAGTGGAGATCACGCACTGTCTTTGGAAGAACAACTTAAGTATTGGG 2376

QY 601 AGATCGATGGCAACATCTGTAGATGGACAGAGACCCGTGGTCTTTTACAGACCA 660
Db 2377 AGATCGATGGCAACATCTGTAGATGGACAGAGACCCGTGGTCTTTTACAGACAT 2436

QY 661 GCCTGAC-----CTAGCTCTTGGACTGACCACTATTGGAGCTCTCTCACTCA 708
Db 2437 CCTTCTCAATGATGCAACGCTCTTCTAGAGACAGTGCCTTTTATGATGATGGCTTCA 2496

QY 709 GACTGTTACTCTGGTGACACA-----ACCTGTGGTTTACTAAGGAACTGCCATCTC 759
Db 2497 AAMGAAGATGCAGTGAACAAGATTACACAACTGGCTTTAAGATCAAAATGAATGTT 2556

QY 760 -----CTAGCTCTTGGACTGACCACTATTGGAGCTCTCTCACTCA 759
Db 2557 ATCAAGCTTCAAAAACCTGGCGTTTAAAGCGGATCTAGAAAAAGAAAAGCAATCCAT 2616

QY 760 -----CAAACTAGAAATGCCATCTTCTCTGATGTTGGAG----- 793
Db 2617 GGGCAAACTGTATCTACTCAAAACAGATCTTCTTCAACACTGAAGAATAAGTCAGTGAC 2676

QY 794 ----- 793

Db 2677 CCAGAAGACGGAAGCATGCTGTGATAACTTTGCCCGGTGTGGGATAATTTAGTCCAAA 2736
QY 794 -----GTACCTACTCATAGATTACTCAACAGATTCCCCCTGGACCTGGA 837
Db 2737 ACTTGAAGAGAGTACAGACAGACTCATAGATTACTGACACAGTTCCCCCTGGACCTGGA 2796

QY 838 AAATTTTCTGCTGCTTACAGAGCTGAAACAACTGCCAATGTCTACAGGATGCTAC 897
Db 2797 AAATTTTCTGCTGCTTACAGAGCTGAAACAACTGCCAATGTCTACAGGATGCTAC 2856

QY 898 CCGTAAAGGAAGCTCCTCAGAGACTCCAGGGGTAAAGAGCTGATCAACAACTGGCA 957
Db 2857 CCGTAAAGGAAGCTCCTCAGAGACTCCAGGGGTAAAGAGCTGATCAACAACTGGCA 2916

QY 958 AGACCTCCAAAGGTGAAATTTGAAGCTCAGACAGATGTTTATCAACACCTGGATGAAAACAG 1017
Db 2917 AGACCTCCAAAGGTGAAATTTGAAGCTCAGACAGATGTTTATCAACACCTGGATGAAAACAG 2976

QY 1018 CCAAAAATCCTGAGATCCTCGAAGGTTCCGATGATGAGTCCCTGTTTACAAAGACGTTT 1077
Db 2977 CCAAAAATCCTGAGATCCTCGAAGGTTCCGATGATGAGTCCCTGTTTACAAAGACGTTT 3036

QY 1078 GGATAACATCAATCTCAAGTGGAGTGAATTCGGAAGAAAGTCTCTCAACATTAGTCCCA 1137
Db 3037 GGATAACATCAATCTCAAGTGGAGTGAATTCGGAAGAAAGTCTCTCAACATTAGTCCCA 3096

QY 1138 TTTGGAAGCCAGTTCTGACAGTGGAAAGCTGTGACCTTTCTCTCAGGAACTTTGCT 1197
Db 3097 TTTGGAAGCCAGTTCTGACAGTGGAAAGCTGTGACCTTTCTCTCAGGAACTTTGCT 3156

QY 1198 GTGGCTACAGTCAAGAGATGAATTAAGCCGCGAGGACCTATTGAGGCGGCTTTCC 1257
Db 3157 GTGGCTACAGTCAAGAGATGAATTAAGCCGCGAGGACCTATTGAGGCGGCTTTCC 3216

QY 1258 ASCAGTTTCAGAAAGCAGAAAGATGTACATAGGCGCTTCAAGAGGGAATTTGAAAATAAGA 1317
Db 3217 ASCAGTTTCAGAAAGCAGAAAGATGTACATAGGCGCTTCAAGAGGGAATTTGAAAATAAGA 3276

QY 1318 ACCTGTAAATCATGATGATCTTCTGAGACTGTAGAAATTTCTGACAGAGAGCTTTGGA 1377
Db 3277 ACCTGTAAATCATGATGATCTTCTGAGACTGTAGAAATTTCTGACAGAGAGCTTTGGA 3336

QY 1378 AGGACTAGAAAGCTCTACAGGCGCCAGAGAGTGCCTCTGAGGAGAGAGCCCGAA 1437
Db 3337 AGGACTAGAAAGCTCTACAGGCGCCAGAGAGTGCCTCTGAGGAGAGAGCCCGAA 3396

QY 1438 TGTCACCTCGGCTTCTACGAAGCAGGCTGAGGAGGTCAATCTAGTGGGAAAATTTGAA 1497
Db 3397 TGTCACCTCGGCTTCTACGAAGCAGGCTGAGGAGGTCAATCTAGTGGGAAAATTTGAA 3456

QY 1498 CCGTCACTCCGCTGACTGGCAGAGAAAATAGATGAGACCCCTTGAAGACTCCAGGAAT 1557
Db 3457 CCGTCACTCCGCTGACTGGCAGAGAAAATAGATGAGACCCCTTGAAGACTCCAGGAAT 3516

QY 1558 TCAGAGAGCCACGATGAGCTGGAACCTCAGCTCGGCAAGCTGAGGTGATCAAGGATC 1617
Db 3517 TCAGAGAGCCACGATGAGCTGGAACCTCAGCTCGGCAAGCTGAGGTGATCAAGGATC 3576

QY 1618 CTGGCAGCCGCTGGGCGATCTCCTCATTTGACTCTTCCAGATACCTTCGAGAAGTCAA 1677
Db 3577 CTGGCAGCCGCTGGGCGATCTCCTCATTTGACTCTTCCAGATACCTTCGAGAAGTCAA 3636

QY 1678 GGCCTCTCGAGGAGAAATTTGGCCTCTGGAAGAGAACGTGAGCCACGCTCAATGACCTTGC 1737
Db 3637 GGCCTCTCGAGGAGAAATTTGGCCTCTGGAAGAGAACGTGAGCCACGCTCAATGACCTTGC 3696

QY 1738 TCSCCAGCTTACCACCTTTGGGCAITCAGCTCTCACCGTATACCTTCAGCCTCTGGAGA 1797
Db 3697 TCSCCAGCTTACCACCTTTGGGCAITCAGCTCTCACCGTATACCTTCAGCCTCTGGAGA 3756

QY 1798 CCGTGAACACAGATGGAAGCTTCTCAGGTGGCGCTCGAGGACCGAGTCAAGGAGCTGCA 1857
Db 1798 CCGTGAACACAGATGGAAGCTTCTCAGGTGGCGCTCGAGGACCGAGTCAAGGAGCTGCA 1916

Db 3757 CTTGAACACACAGATGGAAGCTTCTGCAAGGTGGCCCTCGAGACCGAGTCAGGACGCTGCA 3816
QY 1858 TGAAGCCACACAGGACTTTGGTCCAGCATCTCAGCACATTTCTTTCCACAGTCTGTCCAGGG 1917
Db 3817 TGAAGCCACACAGGACTTTGGTCCAGCATCTCAGCACATTTCTTTCCACAGTCTGTCCAGGG 3876
QY 1918 TCCTGGGAGAGAGCCATCTCGCCAAACAAAGTCCCTACTATATCAACACAGAGACTCA 1977
Db 3877 TCCTGGGAGAGAGCCATCTCGCCAAACAAAGTCCCTACTATATCAACACAGAGACTCA 3936
QY 1978 AACAACTTCTGGGACCATCCCAAAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAA 2037
Db 3937 AACAACTTCTGGGACCATCCCAAAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAA 3996
QY 2038 TAAT 2041
Db 3997 TAAT 4000

RESULT 10
US-09-845-416-1
; Sequence 1, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 11058
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-1

Query Match 60.9%; Score 1242.6; DB 12; Length 11058;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1245; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 793 GGTACCTACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGAAAGTTCTTCCCTG 852
Db 8052 GGAAGAACTCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGAAAGTTCTTCCCTG 8111
QY 853 GCTTACAGAGCTGAAACAACTGCCAATGCTCTACAGGATGCTACCCGTAAGGAAAGGCT 912
Db 8112 GCTTACAGAGCTGAAACAACTGCCAATGCTCTACAGGATGCTACCCGTAAGGAAAGGCT 8171
QY 913 CTTAGAGACTCCAGGAGTAAAGAGCTGATGAACAAATGGCAAGACCTCCAAAGTGA 972
Db 8172 CTTAGAGACTCCAGGAGTAAAGAGCTGATGAACAAATGGCAAGACCTCCAAAGTGA 8231
QY 973 AATTGAAGCTTCACAGATGTTTATCAACACCTGGATGAAACACACCAAAATTCCTGAG 1032
Db 8232 AATTGAAGCTTCACAGATGTTTATCAACACCTGGATGAAACACACCAAAATTCCTGAG 8291
QY 1033 ATCCCTGGAAGGTTCCGATGATGAGCTCTGTACAAAGACCTTTGGATACATGAACTT 1092
Db 8292 ATCCCTGGAAGGTTCCGATGATGAGCTCTGTACAAAGACCTTTGGATACATGAACTT 8351
QY 1093 CAAGTGAGTGAATTCGAAAGTCTCTCAACATTAGTCCCTATTTGGAAGCAGTTC 1152
Db 8352 CAAGTGAGTGAATTCGAAAGTCTCTCAACATTAGTCCCTATTTGGAAGCAGTTC 8411
QY 1153 TGACCACTGGAAGCTCTGCACCTTTCTCTSCAGGAACCTTCTGTGCTGTACAGCTGAA 1212
Db 8412 TGACCACTGGAAGCTCTGCACCTTTCTCTSCAGGAACCTTCTGTGCTGTACAGCTGAA 8471
QY 1213 AGATGATGAATTAAGCCGACGACACTATTGGAGCGGACTTTCAGAGCTTCAGAGCA 1272

Db 8472 AGATGATGAATTAAGCCGACGACACTATTGGAGGCGACTTTCAGAGCTTCAGAGCA 8531
QY 1273 GAACGATGTACATAGGCGCTTCAAGAGGGAATTTGAAAGCTTAAAGAACTTGAATCATGAG 1332
Db 8532 GAACGATGTACATAGGCGCTTCAAGAGGGAATTTGAAAGCTTAAAGAACTTGAATCATGAG 8591
QY 1333 TACTCTTGAGACTGTACGAATATTTCTGACAGACGACCTTTGGAAGGACTAGAGAACT 1392
Db 8592 TACTCTTGAGACTGTACGAATATTTCTGACAGACGACCTTTGGAAGGACTAGAGAACT 8651
QY 1393 CTACAGAGAGCCACAGAGCTGCTCTCTGAGAGAGAGCCCAAGAACTGCTACCTGCGCTTCT 1452
Db 8652 CTACAGAGAGCCACAGAGCTGCTCTCTGAGAGAGAGCCCAAGAACTGCTACCTGCGCTTCT 8711
QY 1453 ACGAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAATTTGAACCTGCATCTCCGCTGA 1512
Db 8712 ACGAAGCAGGCTGAGGAGGTCAATACTGAGTGGGAAAAATTTGAACCTGCATCTCCGCTGA 8771
QY 1513 CTGGCAGAGAAAAATAGATGAGACCTTGAAGACTCCAGGAACTTCAAGAGGCCACGGA 1572
Db 8772 CTGGCAGAGAAAAATAGATGAGACCTTGAAGACTCCAGGAACTTCAAGAGGCCACGGA 8831
QY 1573 TGAGCTGAGCTCAAGCTGCGCCAGCTGAGTGATCAAGSGATCTTGCAGCCGCTGGG 1632
Db 8832 TGAGCTGAGCTCAAGCTGCGCCAGCTGAGTGATCAAGSGATCTTGCAGCCGCTGGG 8891
QY 1633 CGATCTCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACTTTCGAGGAGA 1692
Db 8892 CGATCTCTCATTTGACTCTCTCCAAGATCACCTCGAGAAAGTCAAGGCACTTTCGAGGAGA 8951
QY 1693 AATTGGGCTCTGAAAGAGAACTGAGCCACGCTCAATGACTTGTCTGCGCAGCTTACAC 1752
Db 8952 AATTGGGCTCTGAAAGAGAACTGAGCCACGCTCAATGACTTGTCTGCGCAGCTTACAC 9011
QY 1753 TTTGGGCATTCAGCTCTCACCGTATAACCTCAGCACTTGTGAAGACTTGAACACCAAGATG 1812
Db 9012 TTTGGGCATTCAGCTCTCACCGTATAACCTCAGCACTTGTGAAGACTTGAACACCAAGATG 9071
QY 1813 GAAGCTTCGAGGTGGCGCTCGAGGACCGAGTCAAGGAGCTGCATGAAGCCACAGGGA 1872
Db 9072 GAAGCTTCGAGGTGGCGCTCGAGGACCGAGTCAAGGAGCTGCATGAAGCCACAGGGA 9131
QY 1873 CTTTGTGTCAGCATCTCAGCACTTCTTTCCACAGTCTCTCCAGGCTCCCTGGGAGAGAGC 1932
Db 9132 CTTTGTGTCAGCATCTCAGCACTTCTTTCCACAGTCTCTCCAGGCTCCCTGGGAGAGAGC 9191
QY 1933 CATCTCGCCAAACAAAGTGGCCCTACTATATCAACACAGAGACTCAACAACTTGTCTGGGA 1992
Db 9192 CATCTCGCCAAACAAAGTGGCCCTACTATATCAACACAGAGACTCAACAACTTGTCTGGGA 9251
QY 1993 CCATCCCAAAATGACAGAGCTTACCAAGTCTTTAGCTGACCTGAATAAT 2041
Db 9252 CCATCCCAAAATGACAGAGCTTACCAAGTCTTTAGCTGACCTGAATAAT 9300

RESULT 11
US-09-782-378A-22
; Sequence 22, Application US/09782378A
; Patent No. US20020102731A1
; GENERAL INFORMATION:
; APPLICANT: Hearing, Patrick
; APPLICANT: Bahou, Wadie
; APPLICANT: Sandalon, Ziv
; APPLICANT: Gnatenko, Dmitri
; TITLE OF INVENTION: Adenoviral Vectors
; FILE REFERENCE: STONYB-04970
; CURRENT APPLICATION NUMBER: US/09/782,378A
; PRIOR FILING DATE: 2001-02-12
; PRIOR APPLICATION NUMBER: 60/237,747
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn version 3.0

SEQ ID NO 22
LENGTH: 13957
TYPE: DNA
ORGANISM: Homo sapiens
US-09-782-378A-22

Query Match 60.9%; Score 1242.6; DB 10; Length 13957;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1245; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 793 GGTACCTACTCATTAGATGCTCAACAGTTCCTCCCTGGACCTGGAGAAAGTTCTTCGCTG 852
DB 8260 GGAAGAAGCTCATAGATGCTCAACAGTTCCTCCCTGGACCTGGAGAAAGTTCTTCGCTG 8319
QY 853 GCTTACAGAAAGCTGAAACAACTGCCAATGCTCTACAGGATGCTACCCGTGAAGAAAGGCT 912
DB 8320 GCTTACAGAAAGCTGAAACAACTGCCAATGCTCTACAGGATGCTACCCGTGAAGAAAGGCT 8379
QY 913 CCTAGAGACTCCAGGGAGTAAAGAGCTGATGAACAAATGGCAAGACTCCCAAGGTGA 972
DB 8380 CCTAGAGACTCCAGGGAGTAAAGAGCTGATGAACAAATGGCAAGACTCCCAAGGTGA 8439
QY 973 AATTGAAGCTCACACAGATGTTTATCAACACCTGGATGAAACACCCAAAATTCCTGAG 1032
DB 8440 AATTGAAGCTCACACAGATGTTTATCAACACCTGGATGAAACACCCAAAATTCCTGAG 8499
QY 1033 ATCCCTGGAAGGTTCCGATGATGCTGTTACAAAGACGCTTGGGATACATGAACTT 1092
DB 8500 ATCCCTGGAAGGTTCCGATGATGCTGTTACAAAGACGCTTGGGATACATGAACTT 8559
QY 1093 CAAGTCAGTGAAGTTCGGAAGAGTCTCTCAACATGATGCTCCATTTGGAGCCAGTTC 1152
DB 8560 CAAGTCAGTGAAGTTCGGAAGAGTCTCTCAACATGATGCTCCATTTGGAGCCAGTTC 8619
QY 1153 TGACAGTGAAGCTCTGCACCTTTCTCTCAGGAACTCTGGTGTGCTTACAGTGA 1212
DB 8620 TGACAGTGAAGCTCTGCACCTTTCTCTCAGGAACTCTGGTGTGCTTACAGTGA 8679
QY 1213 AGATGATGAATTAAGCCGAGGCACTTATGAGGCGACTTCCAGCAGTTCAGAGCA 1272
DB 8680 AGATGATGAATTAAGCCGAGGCACTTATGAGGCGACTTCCAGCAGTTCAGAGCA 8739
QY 1273 GAACGATGATACATAGGCTCTCAAGAGGAAATGAAACCTGAAAGAACTGAAATCATGAG 1332
DB 8740 GAACGATGATACATAGGCTCTCAAGAGGAAATGAAACCTGAAAGAACTGAAATCATGAG 8799
QY 1333 TACTCTTACAGCTGTACGAATATTTCTGACAGAGAGCCCTTTGGAAGGACTAGAGAACT 1392
DB 8800 TACTCTTACAGCTGTACGAATATTTCTGACAGAGAGCCCTTTGGAAGGACTAGAGAACT 8859
QY 1393 CTACAGAGAGCCAGAGACTGCTCTCTGAGGAGAGAGCCCAAGATGCTACCTGGCTTCT 1452
DB 8860 CTACAGAGAGCCAGAGACTGCTCTCTGAGGAGAGAGCCCAAGATGCTACCTGGCTTCT 8919
QY 1453 ACGAAGACAGCTGAGAGGCTCAATCTAGTGGGAAAATGAAACCTGCACTCCGCTGA 1512
DB 8920 ACGAAGACAGCTGAGAGGCTCAATCTAGTGGGAAAATGAAACCTGCACTCCGCTGA 8979
QY 1513 CTGCGAGAGAAAATAGATGAGACCTTTGAAAGACTCCAGGAACTTCAAGAGGCCACGGA 1572
DB 8980 CTGCGAGAGAAAATAGATGAGACCTTTGAAAGACTCCAGGAACTTCAAGAGGCCACGGA 9039
QY 1573 TGACCTGAGCTCAAGCTCGCCAGCTGAGTGAATCAAGGATCCTGGCAGCCCTGGG 1632
DB 9040 TGACCTGAGCTCAAGCTCGCCAGCTGAGTGAATCAAGGATCCTGGCAGCCCTGGG 9099
QY 1633 CGATCTCCTCATTTGACTCTCTCCAAAGATCACTCCGAAAGTCAAGGCACTTCAGAGGA 1692
DB 9100 CGATCTCCTCATTTGACTCTCTCCAAAGATCACTCCGAAAGTCAAGGCACTTCAGAGGA 9159
QY 1693 AATTGGGCTCTGAAAGAGAGCTGAGCCAGCTGAATGACCTTGCTGCCAGCTTACCAC 1752
DB 9160 AATTGGGCTCTGAAAGAGAGCTGAGCCAGCTGAATGACCTTGCTGCCAGCTTACCAC 9219

RESULT 12

US-09-880-107-2284
Sequence 2284, Application US/09880107
Patent No. US20020142981A1
GENERAL INFORMATION:
APPLICANT: Horne, Darci T.
APPLICANT: Vockley, Joseph G.
APPLICANT: Scherf, Uwe
APPLICANT: Gene Logic, Inc.
TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
FILE REFERENCE: 44921-5028-WO
CURRENT APPLICATION NUMBER: US/09/880,107
CURRENT FILING DATE: 2001-06-14
PRIOR APPLICATION NUMBER: US 60/211,379
PRIOR FILING DATE: 2000-06-14
PRIOR APPLICATION NUMBER: US 60/237,054
PRIOR FILING DATE: 2000-10-02
NUMBER OF SEQ ID NOS: 3950
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2284
LENGTH: 13957
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: Genbank Accession No. US20020142981A1 M18533
US-09-880-107-2284

Query Match 60.9%; Score 1242.6; DB 10; Length 13957;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 1245; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 793 GGTACCTACTCATTAGATGCTCAACAGTTCCTCCCTGGACCTGGAGAAAGTTCTTCGCTG 852
DB 8260 GGAAGAAGCTCATAGATGCTCAACAGTTCCTCCCTGGACCTGGAGAAAGTTCTTCGCTG 8319
QY 853 GCTTACAGAAAGCTGAAACAACTGCCAATGCTCTACAGGATGCTACCCGTGAAGAAAGGCT 912
DB 8320 GCTTACAGAAAGCTGAAACAACTGCCAATGCTCTACAGGATGCTACCCGTGAAGAAAGGCT 8379
QY 913 CCTAGAGACTCCAGGGAGTAAAGAGCTGATGAACAAATGGCAAGACTCCCAAGGTGA 972
DB 8380 CCTAGAGACTCCAGGGAGTAAAGAGCTGATGAACAAATGGCAAGACTCCCAAGGTGA 8439
QY 973 AATTGAAGCTCACACAGATGTTTATCAACACCTGGATGAAACACCCAAAATTCCTGAG 1032
DB 8440 AATTGAAGCTCACACAGATGTTTATCAACACCTGGATGAAACACCCAAAATTCCTGAG 8499
QY 1033 ATCCCTGGAAGGTTCCGATGATGCTGTTACAAAGACGCTTGGGATACATGAACTT 1092
DB 8500 ATCCCTGGAAGGTTCCGATGATGCTGTTACAAAGACGCTTGGGATACATGAACTT 8559

QY 1640 CTATTGACTCTCTCCAGATCACTCGAGAAAGTCAGGCACTTCGAGGAGAAATTGGG 1699
Db 842 CTATTGACTCTCTCCAGATCACTCGAGAAAGTCAGGCACTTCGAGGAGAAATTGGG 901
QY 1700 CCTCTGAAGAGAGCTGAGCCAGTCAATGACCTTGCTCCGACCTTACCACTTTGGC 1759
Db 902 CCTCTGAAGAGAGCTGAGCCAGTCAATGACCTTTGCTCCGACCTTACCACTTTGGC 961
QY 1760 ATTGAGCTCTCACCTGATTAACCTCAGCACTCTGGAAGACCTGAACACAGATGGAAGCTT 1819
Db 962 ATTGAGCTCTCACCTGATTAACCTCAGCACTCTGGAAGACCTGAACACAGATGGAAGCTT 1021
QY 1820 CTGAGGTGGCTCGAGACCGAGTCAGGCACTGCATGAGCCAGCCAGGCACTTTGGT 1879
Db 1022 CTGAGGTGGCTCGAGACCGAGTCAGGCACTGCATGAGCCAGCCAGGCACTTTGGT 1081
QY 1880 CCAGCATCTCAGCACTTTCTTCCACGTCGTCCAGGGTCCCTGGGAGAGCCATCTCG 1939
Db 1082 CCAGCATCTCAGCACTTTCTTCCACGTCGTCCAGGGTCCCTGGGAGAGCCATCTCG 1141
QY 1940 CCRAACAAAGTCCCTACTATATCAACACAGAGACTCAAAACACTTGTGGGACCATCC 1999
Db 1142 CCRAACAAAGTCCCTACTATATCAACACAGAGACTCAAAACACTTGTGGGACCATCC 1201
QY 2000 AAATGACAGAGCTCTACAGCTTTTAGCTGACCTGAATAAT 2041
Db 1202 AAATGACAGAGCTCTACAGCTTTTAGCTGACCTGAATAAT 1243

RESULT 14
US-09-845-416-10
; Sequence 10, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 10
; LENGTH: 3531
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-10

Query Match 60.9%; Score 1242; DB 12; Length 3531;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 800 ACTCATGATTACTGCAACAGTTCCCTGGACCTGGAAGTTCTTGGCTGCTTACA 859
Db 1351 ACTCATGATTACTGCAACAGTTCCCTGGACCTGGAAGTTCTTGGCTGCTTACA 1410
QY 860 GAAGCTGAACAACTGCCAAGTCTCTACAGATGTCACCGTAAGGAAGCTCCTAGAA 919
Db 1411 GAAGCTGAACAACTGCCAAGTCTCTACAGATGTCACCGTAAGGAAGCTCCTAGAA 1470
QY 920 GACTCCAGGAGCTTAAGAGCTGATGAACAATGSCAGAGCTCCAGGTGAATGAA 979
Db 1471 GACTCCAGGAGCTTAAGAGCTGATGAACAATGSCAGAGCTCCAGGTGAATGAA 1530
QY 980 GCTCACAGATGTTTATCACAACCTGGATGAAAACAGCAAAATCTCGATCCCTG 1039
Db 1531 GCTCACAGATGTTTATCACAACCTGGATGAAAACAGCAAAATCTCGATCCCTG 1590
QY 1040 GAAGTTCGAGATGATGCTCTCTTACAAAGAGCTTTGGATGAACAACTCAAGTGG 1099
Db 1591 GAAGTTCGAGATGATGCTCTCTTACAAAGAGCTTTGGATGAACAACTCAAGTGG 1650

QY 1100 AGTGAATTCGAAAAAGTCTCTCAACATTAGTCCCTTTTGAAGCCAGTCTTGACCAAG 1159
Db 1651 AGTGAATTCGAAAAAGTCTCTCAACATTAGTCCCTTTTGAAGCCAGTCTTGACCAAG 1710
QY 1160 TGAAGCGTCTCCACCTTTCTGCGAGAACTCTTGTGTGGCTACAGCTTGAAGATGAT 1219
Db 1711 TGAAGCGTCTCCACCTTTCTGCGAGAACTCTTGTGTGGCTACAGCTTGAAGATGAT 1770
QY 1220 GAATTAAGCCGCGAGCACTTATTTGGAGGCGACTTTCCAGCAGTTCAAGAGCAAGACGAT 1279
Db 1771 GAATTAAGCCGCGAGCACTTATTTGGAGGCGACTTTCCAGCAGTTCAAGAGCAAGACGAT 1830
QY 1280 GTACATAGGCGCTTCAAGAGAGGAATTGAAPCTTAAGAACTTGAATCATGATCTCTT 1339
Db 1831 GTACATAGGCGCTTCAAGAGAGGAATTGAAPCTTAAGAACTTGAATCATGATCTCTT 1890
QY 1340 GAGACTGTACGAATATTTCTCAGAGACGACCTTTTGGAGGACTAGAGAACTTACCAAG 1399
Db 1891 GAGACTGTACGAATATTTCTCAGAGACGACCTTTTGGAGGACTAGAGAACTTACCAAG 1950
QY 1400 GAGCCAGAGAGCTGCTTCTGAGGAGAGAGCCAGCAATGTCACTCGGCTTCTACGAAAG 1459
Db 1951 GAGCCAGAGAGCTGCTTCTGAGGAGAGAGCCAGCAATGTCACTCGGCTTCTACGAAAG 2010
QY 1460 CAGCTGAGAGGTCATATCTGAGTGGGAAAATTAACCTGCAGCTCCGCTGACTGGCAG 1519
Db 2011 CAGCTGAGAGGTCATATCTGAGTGGGAAAATTAACCTGCAGCTCCGCTGACTGGCAG 2070
QY 1520 AGAAAAATAGATGAGACCTTTGAAGACTCCAGGAACTTCAAGAGCCACGAGATGAGTGG 1579
Db 2071 AGAAAAATAGATGAGACCTTTGAAGACTCCAGGAACTTCAAGAGCCACGAGATGAGTGG 2130
QY 1580 GACCTCAAGCTGCGCAAGCTGAGTGATCAAGGGATCTCGAGAGCCCGTGGCGATCTC 1639
Db 2131 GACCTCAAGCTGCGCAAGCTGAGTGATCAAGGGATCTCGAGAGCCCGTGGCGATCTC 2190
QY 1640 CTCAATTGACTCTCTCCAGATCACTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTGGG 1699
Db 2191 CTCAATTGACTCTCTCCAGATCACTCGAGAAAGTCAAGGCACTTCGAGGAGAAATTGGG 2250
QY 1700 CCTCTGAAGAGAAAGCTGAGCACTCAATGACCTTCTCGCCAGCTTACCACTTTGGCG 1759
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QY 1760 ATTGAGCTCTCACCTGATTAACCTCAGCACTCTGGAAGACTTGAACACAGATGGAAGCTT 1819
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QY 1820 CTGCGAGTGGCTCGAGAGCCGAGTCAGGCACTGCATGAGCCACAGGCACTTTGGT 1879
Db 2371 CTGCGAGTGGCTCGAGAGCCGAGTCAGGCACTGCATGAGCCACAGGCACTTTGGT 2430
QY 1880 CCAGCATCTCAGCACTTTCTTCCACGTCGTCCAGGGTCCCTGGGAGAGCCATCTCG 1939
Db 2431 CCAGCATCTCAGCACTTTCTTCCACGTCGTCCAGGGTCCCTGGGAGAGCCATCTCG 2490
QY 1940 CCRAACAAAGTGGCTTATATATCAACACAGAGCTTCAAAACACTTGTCTGGACCATCC 1999
Db 2491 CCRAACAAAGTGGCTTATATATCAACACAGAGCTTCAAAACACTTGTCTGGACCATCC 2550
QY 2000 AAATGACAGAGCTCTACAGCTTTTAGCTGACCTGAATAAT 2041
Db 2551 AAATGACAGAGCTCTACAGCTTTTAGCTGACCTGAATAAT 2592

RESULT 15
US-09-845-416-30
; Sequence 30, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE

;; TITLE OF INVENTION: THEREOF

;; FILE REFERENCE: DE1142
;; CURRENT APPLICATION NUMBER: US/09/845,416
;; CURRENT FILING DATE: 2001-04-30
;; PRIOR APPLICATION NUMBER: 60/200,777
;; PRIOR FILING DATE: 2000-04-28
;; NUMBER OF SEQ ID NOS: 36
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 30
;; LENGTH: 4498
;; TYPE: DNA
;; ORGANISM: Homo sapiens
US-09-845-416-30

Query Match 60.98; Score 1242; DB 12; Length 4498;

Best Local Similarity 100.0%; Pred. No. 0;
Matches 1242; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY	860	GAAGCTGAAACAACTGCCATGTCCTACAGATGCTACCGTAAAGAAAGGCTCTACAA	919
Db	2168	GAAGCTGAAACAACTGCCATGTCCTACAGATGCTACCGTAAAGAAAGGCTCTACAA	2227
QY	920	GACTCCAGGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAAGGTGAATTTGAA	979
Db	2228	GACTCCAGGGAGTAAAGAGCTGATGAAACAATGGCAAGACCTCCAAAGGTGAATTTGAA	2287
QY	980	GCTCACACAGATGTTTATCACACCTGGATGAAAGCAAGCAAAATPCTTGAGATCCCTG	1039
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QY	1040	GAAGGTTCCGATGATGACGTCCTTACAAAGACCTTTGGATACATGACATCAAGTGG	1099
Db	2348	GAAGGTTCCGATGATGACGTCCTTACAAAGACCTTTGGATACATGACATCAAGTGG	2407
QY	1100	AGTGAACCTCGGAAAAGTCTCTCAACATTAGGTCCCATTTGGAAGCCAGTTCTGACCA	1159
Db	2408	AGTGAACCTCGGAAAAGTCTCTCAACATTAGGTCCCATTTGGAAGCCAGTTCTGACCA	2467
QY	1160	TGAAGCGTCTGCACCTTCTCTGAGGAACCTCTGTTGGTGGCTTACAGCTGAAAGATGAT	1219
Db	2468	TGAAGCGTCTGCACCTTCTCTGAGGAACCTCTGTTGGTGGCTTACAGCTGAAAGATGAT	2527
QY	1220	GAATTAAGCCGACGACCTTATTGGAGCGGACTTTCAGAGCTTCCAGAGCAGAACCAT	1279
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QY	1280	GTACATPAGGGCTTCAAGAGGGAATTGAAAACCTAAAGAACCTGTAATCATGATCTCTT	1339
Db	2588	GTACATPAGGGCTTCAAGAGGGAATTGAAAACCTAAAGAACCTGTAATCATGATCTCTT	2647
QY	1340	GAGACTGTACGAATTTCTGACAGAGGAGCCCTTTGGAGGACTTAGAGAACTCTACCA	1399
Db	2648	GAGACTGTACGAATTTCTGACAGAGGAGCCCTTTGGAGGACTTAGAGAACTCTACCA	2707
QY	1400	GAGCCACAGAGACTCCCTCTGAGGAGAGGCCAGAAATGTCACCTCGGCTTCTACGAAAG	1459
Db	2708	GAGCCACAGAGACTCCCTCTGAGGAGAGGCCAGAAATGTCACCTCGGCTTCTACGAAAG	2767
QY	1460	CAGGCTGAGAGGCTCAATPACTGAGTGGGAAAATTTGAACCTCGACTCCGCTGAGTGG	1519
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QY	1520	AGAAAATAGATGAGACCTTGAAGACTCCAGGAACTTCAAGAGGCCAGGATGAGCTG	1579
Db	2828	AGAAAATAGATGAGACCTTGAAGACTCCAGGAACTTCAAGAGGCCAGGATGAGCTG	2887
QY	1580	GACCTCAAGCTCGCCAAAGCTGAGGTGATCAAGGGATCCTGGCAGCCCTGGGCGATCTC	1639
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Job time : 479.352 secs

QY	1640	CTCATTGACTCTCTCCAAAGATCACCTCGAGAAATCAAGGCACCTTCGAGGAGAAATTCGG	1699
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QY	1700	CCTCTGAAAGAGAACGTCGAGCCACGTCATGACCTTCTCGCCAGCTTACCACCTTTGGGC	1759
Db	3008	CCTCTGAAAGAGAACGTCGAGCCACGTCATGACCTTCTCGCCAGCTTACCACCTTTGGGC	3067
QY	1760	ATTGAGCTCTCACCGGTATTAACCTCAGCAGCTCTGGAAGACCTGAACACAGATGGAACCTT	1819
Db	3068	ATTGAGCTCTCACCGGTATTAACCTCAGCAGCTCTGGAAGACCTGAACACAGATGGAACCTT	3127
QY	1820	CTGAGGTGGCCGTCGAGGACCGAGTCAGGAGCTGATGAAGCCCAACAGGAGCTTTGGT	1879
Db	3128	CTGAGGTGGCCGTCGAGGACCGAGTCAGGAGCTGATGAAGCCCAACAGGAGCTTTGGT	3187
QY	1880	CCAGCATCTCAGACATTTTCTTCCACGCTCTCCAGGGTCCCTGGGAGAGAGCCATCTCG	1939
Db	3188	CCAGCATCTCAGACATTTTCTTCCACGCTCTCCAGGGTCCCTGGGAGAGAGCCATCTCG	3247
QY	1940	CCAAACAAAGTGCCCTACTATATCAACACGAGACTCAACACACTTTGCTGGGACCATCCC	1999
Db	3248	CCAAACAAAGTGCCCTACTATATCAACACGAGACTCAACACACTTTGCTGGGACCATCCC	3307
QY	2000	AAATGACAGAGCTCTACCAGTCTTTTAGCTGACCTGAATAAT	2041
Db	3308	AAATGACAGAGCTCTACCAGTCTTTTAGCTGACCTGAATAAT	3349

GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.
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Run on: September 23, 2003, 23:43:25 ; Search time 662.126 Seconds
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Scoring table: IDENTITY_NVC
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Searched: 1678620 seqs, 124474571 residues

Total number of hits satisfying chosen parameters: 3357240

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Post-processing: Minimum Match 0%
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Listing first 45 summaries

Database : Published Applications NA: *

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- 2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq.*
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- 15: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq.*
- 16: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq.*
- 17: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	2861	100.0	3858	12	US-09-845-416-9
2	2861	100.0	4825	12	US-09-845-416-29
3	2861	100.0	4848	12	US-09-845-416-35
4	2861	100.0	5060	12	US-09-845-416-36
5	2710	94.7	3999	12	US-09-845-416-6
6	2710	94.7	4966	12	US-09-845-416-28
7	2710	94.7	4990	12	US-09-845-416-34
8	2527	88.3	4182	12	US-09-845-416-2
9	2527	88.3	5149	12	US-09-845-416-27
10	2197	76.8	3531	12	US-09-845-416-10
11	2197	76.8	4498	12	US-09-845-416-30
12	2155	75.3	3510	12	US-09-845-416-12
13	2155	75.3	4476	12	US-09-845-416-1
14	1735.6	60.7	11058	12	US-09-845-416-31
15	1735.6	60.7	13957	10	US-09-782-378A-22
16	1735.6	60.7	13957	10	US-09-880-107-2284
					Sequence 2284, Ap

17	1723	60.2	2169	12	US-09-845-416-4	Sequence 4, Appli
18	1723	60.2	4414	12	US-09-845-416-32	Sequence 32, Appl
19	1711	59.8	3446	12	US-09-845-416-14	Sequence 14, Appl
20	1376	48.1	1821	12	US-09-845-416-13	Sequence 13, Appl
21	1152.2	40.3	1991	12	US-09-845-416-3	Sequence 3, Appli
22	1137	39.7	1667	12	US-09-845-416-7	Sequence 7, Appli
23	989	34.6	1434	12	US-09-845-416-15	Sequence 15, Appl
24	810	28.3	1340	12	US-09-845-416-11	Sequence 11, Appl
25	690.6	24.1	10302	10	US-09-782-378A-23	Sequence 23, Appl
26	681.8	23.8	16531	12	US-10-101-510-667	Sequence 667, App
27	190.2	6.6	256	9	US-09-864-761-21956	Sequence 21956, A
28	178	6.2	466	9	US-09-864-761-6092	Sequence 6092, Ap
29	153.4	5.4	467	9	US-09-864-761-11083	Sequence 11083, A
30	151	5.3	151	9	US-09-864-761-27715	Sequence 27715, A
31	83.6	2.9	517	13	US-10-037-632-88865	Sequence 88865, A
32	54.2	1.9	449	11	US-09-918-995-24084	Sequence 24084, A
33	54.2	1.9	2247	10	US-09-960-253-157	Sequence 157, App
34	52.6	1.8	3987	14	US-10-198-846-12468	Sequence 12468, A
35	52.6	1.8	9274	10	US-09-885-535-3	Sequence 3, Appli
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37	46.4	1.6	425	11	US-09-918-995-35971	Sequence 35971, A
38	46.4	1.6	3471	12	US-09-814-353-20732	Sequence 20732, A
39	46.4	1.6	3471	14	US-10-198-846-12217	Sequence 12217, A
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41	45.6	1.6	14800	10	US-09-954-456-1601	Sequence 1601, Ap
42	45.6	1.6	14835	12	US-10-240-965-113	Sequence 113, App
43	43	1.5	436	10	US-09-960-352-10742	Sequence 10742, A
44	42.8	1.5	1690	14	US-10-037-270-69	Sequence 69, Appl
45	42.2	1.5	423	9	US-09-864-761-18355	Sequence 18355, A

ALIGNMENTS

RESULT 1

US-09-845-416-9
; Sequence 9, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: D81142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 3858
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-9

Query Match	100.0%;	Score 2861;	DB 12;	Length 3858;
Best Local Similarity	100.0%;	Pred. No. 0;		
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			Indels	0;
			Gaps	0;
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QY	61	ACATGCAATTCACATCGCCAGATATCAATTAGGCATAGAGAACTACTTCGATCTGAGA	120	
Db	600	ACATGCAATTCACATCGCCAGATATCAATTAGGCATAGAGAACTACTTCGATCTGAGA	659	
QY	121	TGTTGATACCACTATCCAGATAGAGTCCATCTTAAATGTACATCATCATCTTCCA	180	
Db	660	TGTTGATACCACTATCCAGATAGAGTCCATCTTAAATGTACATCATCATCTTCCA	719	
QY	181	AGTTTTCCTCAACAGTGAAGTCATGAGCCATCCAGGAAGTGAATGTTGCCAGGCC	240	

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QY 1921 CTTCAAGCTGCGCCCAAGCTGAGTGTATCAAGGATCTTGGCAGCCCTGCGGCGGATCTCT 1980
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Db 2760 AGCATCTCAGCACTTTCTTTCACGCTCTGCTCCAGGCTCCCTGGGAGAGAGCCATTCGCC 2819
QY 2281 AABCAAGTGGCCCTACTATATATCAACCAAGAGACTCAACACACTTGTCTGGGAGAGCCATTC 2340
Db 2820 AABCAAGTGGCCCTACTATATATCAACCAAGAGACTCAACACACTTGTCTGGGAGAGCCATTC 2879
QY 2341 AATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATATATGTCAGATTTCTAGCTTATAG 2400
Db 2880 AATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATATATGTCAGATTTCTAGCTTATAG 2939

1321 TCACAGATGTTTATCACAACTGGATGAAACACGCAAAATCTGAGATCCCTGGA 1380
1322 TCACAGATGTTTATCACAACTGGATGAAACACGCAAAATCTGAGATCCCTGGA 1381
2617 TCACAGATGTTTATCACAACTGGATGAAACACGCAAAATCTGAGATCCCTGGA 2676
1381 AGTTCCGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1440
2677 AGTTCCGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2736
1441 TCACAGATGTTTATCACAACTGGATGAAACACGCAAAATCTGAGATCCCTGGA 1500
2737 TCACAGATGTTTATCACAACTGGATGAAACACGCAAAATCTGAGATCCCTGGA 2796
1501 GAAGGCTGTCACCTTTCTGTCAGGAGGATTTGTCAGGAGGATTTGTCAGGAG 1560
2797 GAAGGCTGTCACCTTTCTGTCAGGAGGATTTGTCAGGAGGATTTGTCAGGAG 2856
1561 ATTAAGCGGCGAGGACCTATTTGAGGCGGACTTTCCAGAGTTCAGAGCAGAGATG 1620
2857 ATTAAGCGGCGAGGACCTATTTGAGGCGGACTTTCCAGAGTTCAGAGCAGAGATG 2916
1621 ACATAGGCGCTTCAAGAGGGAATGAAACAAAGAACTGTAATCATGAGTACTCTGA 1680
2917 ACATAGGCGCTTCAAGAGGGAATGAAACAAAGAACTGTAATCATGAGTACTCTGA 2976
1681 GACTGTAGCAATATTTCTGACAGAGCAGGCTTTTGAAGGACTAGAGAACTCTACAGGA 1740
2977 GACTGTAGCAATATTTCTGACAGAGCAGGCTTTTGAAGGACTAGAGAACTCTACAGGA 3036
1741 GCGCAGAGAGTGCCTCTGAGGAGAGAGCCAGAGTCTACGCGGCTTCTACGAAAGCA 1800
3037 GCGCAGAGAGTGCCTCTGAGGAGAGAGCCAGAGTCTACGCGGCTTCTACGAAAGCA 3096
1801 GCGTGAAGAGTGCCTCTGAGGAGAGAGCCAGAGTCTACGCGGCTTCTACGAAAGCA 1860
3097 GCGTGAAGAGTGCCTCTGAGGAGAGAGCCAGAGTCTACGCGGCTTCTACGAAAGCA 3156
1861 AAAATAGATGAGACCTTTGAAAGACTCCAGGAATTCAGAGGAGGAGGAGTACTGGA 1920
3157 AAAATAGATGAGACCTTTGAAAGACTCCAGGAATTCAGAGGAGGAGGAGTACTGGA 3216
1921 CTTCAAGTGCAGGAGTGCCTCTGAGGAGAGAGCCAGAGTCTACGCGGCTTCTACGAAAGCA 1980
3217 CTTCAAGTGCAGGAGTGCCTCTGAGGAGAGAGCCAGAGTCTACGCGGCTTCTACGAAAGCA 3276
1981 CATGAGTGCCTCTGAGGAGAGAGCCAGAGTCTACGCGGCTTCTACGAAAGCA 2040
3277 CATGAGTGCCTCTGAGGAGAGAGCCAGAGTCTACGCGGCTTCTACGAAAGCA 3336
2041 TCTGAAGAGAGTGCCTCTGAGGAGAGAGCCAGAGTCTACGCGGCTTCTACGAAAGCA 2100
3337 TCTGAAGAGAGTGCCTCTGAGGAGAGAGCCAGAGTCTACGCGGCTTCTACGAAAGCA 3396
2101 TCAGTCTCTCAGGAGTGCCTCTGAGGAGAGAGCCAGAGTCTACGCGGCTTCTACGAAAGCA 2160
3397 TCAGTCTCTCAGGAGTGCCTCTGAGGAGAGAGCCAGAGTCTACGCGGCTTCTACGAAAGCA 3456
2161 GCAGTGCCTCTGAGGAGAGAGCCAGAGTCTACGCGGCTTCTACGAAAGCA 2220
3457 GCAGTGCCTCTGAGGAGAGAGCCAGAGTCTACGCGGCTTCTACGAAAGCA 3516
2221 AGCATCTCAGGAGTGCCTCTGAGGAGAGAGCCAGAGTCTACGCGGCTTCTACGAAAGCA 2280
3517 AGCATCTCAGGAGTGCCTCTGAGGAGAGAGCCAGAGTCTACGCGGCTTCTACGAAAGCA 3576
2281 AAACAAGTGCCTCTGAGGAGAGAGCCAGAGTCTACGCGGCTTCTACGAAAGCA 2340
3577 AAACAAGTGCCTCTGAGGAGAGAGCCAGAGTCTACGCGGCTTCTACGAAAGCA 3636
2341 AATGACAGAGTCTACGAGTCTTTAGCTGACCTGATTAATGATGATGATGATGATGAT 2400
3637 AATGACAGAGTCTACGAGTCTTTAGCTGACCTGATTAATGATGATGATGATGATGAT 3696
2401 GACTGCCATGAATCCGAGAGACTGCAGAGGCGCTTTGCTGATGATGATGATGATGATGAT 2460

3697 GACTGCCATGAATCCGAGAGACTGCAGAGGCGCTTTGCTGATGATGATGATGATGATGAT 3756
2461 AGCTGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2520
3757 AGCTGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 3816
2521 CTTGAGAGTGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2580
3817 CTTGAGAGTGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 3876
2581 TTGTTGCAACCTCCCTCTGCTGCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 2640
3877 TTGTTGCAACCTCCCTCTGCTGCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 3936
2641 TACGGAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2700
3937 TACGGAGAGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 3996
2701 TAAAGCACATTTGGAAGCAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGG 2760
3997 TAAAGCACATTTGGAAGCAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGG 4056
2761 ATTTGTGACGAG 2820
4057 ATTTGTGACGAG 4116
2821 GTTGGTGAAGTTCATCCTTTGGGGGAGTAAATGAGG 2861
4117 GTTGGTGAAGTTCATCCTTTGGGGGAGTAAATGAGG 4157

RESULT 3
US-09-845-416-35
; Sequence 35, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
; LENGTH: 4848
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-35

Query Match 100.0%; Score 2861; DB 12; Length 4848;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2861; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCAGACCTATTTCAGCTGGAAATAGTGTGTTGCCAGCAGTTCAGCCACACACGACTGGA 60
DB 1320 GCCAGACCTATTTCAGCTGGAAATAGTGTGTTGCCAGCAGTTCAGCCACACACGACTGGA 1379
QY 61 ACATGATTCACATTCGCCAGATATCAATAGGCATAGAGAACTACTCGATCCTGAGA 120
DB 1380 ACATGATTCACATTCGCCAGATATCAATAGGCATAGAGAACTACTCGATCCTGAGA 1439
QY 121 TGTGATACCACTTATCCAGATAGAGTCCATCTTATGTATCATCATCATCTTCCA 180
DB 1440 TGTGATACCACTTATCCAGATAGAGTCCATCTTATGTATCATCATCATCTTCCA 1499
QY 181 AGTTTTCCTCAACAAGTGAAGTGAAGCCATCCAGAACTGAAATGTTGCCAAGGCC 240
DB 1500 AGTTTTCCTCAACAAGTGAAGTGAAGCCATCCAGAACTGAAATGTTGCCAAGGCC 1559

QY 241 ACCTAAAGTGAATAAGAGAGACATTTTCAGTTACATCATCAATGGCACTATTCTCAACA 300
Db |||||
QY 1560 ACCTAAAGTGAATAAGAGAGACATTTTCAGTTACATCATCAATGGCACTATTCTCAACA 1619
Db |||||
QY 301 GATCAAGGTCAGTCTAGCAGAGGATATGAGAGAGATCTTCTGCCCTCAAGGCTCGATTCAA 360
Db |||||
QY 1620 GATCAAGGTCAGTCTAGCAGAGGATATGAGAGAGATCTTCTGCCCTCAAGGCTCGATTCAA 1679
Db |||||
QY 361 GAGTATGCTTACACACAGAGGTCGTATGTCACACACCTCTGACCTCAACAGGACCCATT 420
Db |||||
QY 1680 GAGTATGCTTACACACAGAGGTCGTATGTCACACACCTCTGACCTCAACAGGACCCATT 1739
Db |||||
QY 421 TCCTTCACAGCATTTGGAAGTCTCTGAAGCAAGTATTTAGAGAGATTTATGCGTGGTCTTTC 480
Db |||||
QY 1740 TCCTTCACAGCATTTGGAAGTCTCTGAAGCAAGTATTTAGAGAGATTTATGCGTGGTCTTTC 1799
Db |||||
QY 481 TGAAGTAAACCTGGACCGTTATCAACACAGCTTTAGAGAGATTTATGCGTGGTCTTTC 540
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QY 1800 TGAAGTAAACCTGGACCGTTATCAACACAGCTTTAGAGAGATTTATGCGTGGTCTTTC 1859
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QY 541 TGCTGAGACACATTCAGAGACAGAGAGATTTCTATGATGTTGGAGTGGTGAAGA 600
Db |||||
QY 1860 TGCTGAGACACATTCAGAGACAGAGAGATTTCTATGATGTTGGAGTGGTGAAGA 1919
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QY 601 CCAGTTTCTACTCATGAGGGGTACATGATGATTTGACAGCCCATCAGGCGCGGTTGG 660
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QY 1920 CCAGTTTCTACTCATGAGGGGTACATGATGATTTGACAGCCCATCAGGCGCGGTTGG 1979
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QY 1980 TAATATTTCTACAATGGGAAGTAACTGATGATGGAACAGGAAATTTATCAGAAGATGAAGA 2039
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QY 2040 AACTGAAGTCAAGAGACATCAATCTCTTAATTCAGATGGGATGCTCAGGTTAGC 2099
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QY 2100 TAGCATGGAAAAACAAGCAATTTACATAGAGTTTAAATGGATCTCCAGATCAGAACT 2159
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QY 2160 GAAAGATTGAATGCTGCTTAACAAAAACAAGAAAGAACAAAGAAATGGAGGAAGA 2219
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QY 901 GCTCTGAGACCTGATCTTGAAGACCTAAACGCCAGGTACACACATAGGTGCTTCA 960
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QY 2400 AGATCGATGGGCAACATCTGTAGATGACACAGAGACCGCTGGTCTTTTACAGACAC 2459
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QY 1141 TCATAGATTTACTGCAACAGTTCCCTGACCTGGAAAGTTTCTGCTGCTGCTTACAGA 1200
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QY 2460 TCATAGATTTACTGCAACAGTTCCCTGACCTGGAAAGTTTCTGCTGCTGCTTACAGA 2519
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QY 1201 AGCTGAACAACTGCCAATGTCTACAGGATGCTTACCCGTAAGGAAAGGCTCTTAGAAGA 1260
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QY 2520 AGCTGAACAACTGCCAATGTCTACAGGATGCTTACCCGTAAGGAAAGGCTCTTAGAAGA 2579
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QY 1261 CTCACAGGAGTAAGAGCTGATGAACATGGAAGACCTCCAGAGTGAATGAAGC 1320
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QY 2580 CTCACAGGAGTAAGAGCTGATGAACATGGAAGACCTCCAGAGTGAATGAAGC 2639
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QY 1321 TCACACAGATGTTTATCACAACCTGGATGAAACAGCCAAATCCTCGAGATCCCTGGA 1380
Db |||||

Db 2640 TCACACAGATGTTTATCACAACCTGGATGAAACAGCCAAAATCCTGAGATCCCTGGA 2699
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QY 2760 TGAATCTCGAAAAAGATCTCTCAACATTTAGTGTCCATTTGGAAAGCCATTTCTGACCAAGT 2819
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QY 1501 GAAAGCTCTCACTCTCTCTGAGGACCTCTGAGTGTGCTACAGCTGAAGATGATGA 1560
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QY 2820 GAAAGCTCTCACTCTCTCTGAGGACCTCTGAGTGTGCTACAGCTGAAGATGATGA 2879
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QY 1681 GACTGTACGAATTTTCTGACAGAGAGCCCTTTGGAAAGACTTAGAGAACTTCTACCAAG 1740
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QY 3000 GACTGTACGAATTTTCTGACAGAGAGCCCTTTGGAAAGACTTAGAGAACTTCTACCAAG 3059
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QY 1741 GCCCAGAGAGCTGCCCTCTGAGAGAGAGCCCAAGATGTCACCTCGGCTTCTACGAAAGCA 1800
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QY 3060 GCCCAGAGAGCTGCCCTCTGAGAGAGAGCCCAAGATGTCACCTCGGCTTCTACGAAAGCA 3119
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QY 1801 GGCTGAGAGGTCATTAAGTGGGAAATTTGAAGTGGTGAAGTGGTGAAGTGGTGAAG 1860
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QY 3120 GGCTGAGAGGTCATTAAGTGGGAAATTTGAAGTGGTGAAGTGGTGAAGTGGTGAAG 3179
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QY 3180 AAAAATAGATGAGACCTTTGAAAGACTCCAGAGACTTCAAGAGGCCAGGATGAGCTGGA 3239
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QY 3240 CCTCAAGCTGGCCAGAGCTGAGGTATCAAGGATCTTGGCAGCCGCTGGGCGATCTCCT 3299
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QY 2041 TCTGAAAGAGAGAGCTGAGCCAGCTCAATGACCTTCTCGCCAGCTTACCCTTTGGGCAT 2100
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QY 3360 TCTGAAAGAGAGAGCTGAGCCAGCTCAATGACCTTCTCGCCAGCTTACCCTTTGGGCAT 3419
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QY 2101 TCAGCTCTCAGGTATTAACCTCAGACCTCTGGAAGACCTGAACACCAAGATGGAAGCTTCT 2160
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QY 3420 TCAGCTCTCAGGTATTAACCTCAGACCTCTGGAAGACCTGAACACCAAGATGGAAGCTTCT 3479
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QY 3480 GCAGTGGCCGTCGAGAGCCGAGTCAGACCTCAGCTCATGAAGCCACAGGACTTTGGTCC 3539
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QY 2221 AGCATCTCAGCACTTTCTTTCCACGCTCTGTCCAGGGTCCCTGGGAGAGAGCAATCTGCC 2280
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QY 3540 AGCATCTCAGCACTTTCTTTCCACGCTCTGTCCAGGGTCCCTGGGAGAGAGCAATCTGCC 3599
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QY 2281 AAACAAAGTGGCTTACTATATCAACACAGAGACTCAAAACAACTTGTGGGACCAATCCCAA 2340
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QY 3600 AAACAAAGTGGCTTACTATATCAACACAGAGACTCAAAACAACTTGTGGGACCAATCCCAA 3659
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QY 2341 AATGACAGAGCTTACCACTTTTACCTGACTTACCTGAATTAATGTCAGATCTCAGCTTATAG 2400
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QY 3660 AATGACAGAGCTTACCACTTTTACCTGACTTACCTGAATTAATGTCAGATCTCAGCTTATAG 3719
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QY 2401 GACTGCCATGAATCTCGGAAGACTCAGAGAGCCCTTTGCTTGGATCTCTTGGAGCTGTC 2460
Db |||||


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Db 3720 GACTGCGATGAACCTCGAAGACTGCAGAAGGCCCTTTGCTTGGATCTCTTGAGCCTGTC 3779
QY 2461 AGCTGCATGTGATGCTTGGACCAAGCAACCTCAAGCAAAATGACCAGGCCCAATGATAT 2520
Db 3780 AGCTGCATGTGATGCTTGGACCAAGCAACCTCAAGCAAAATGACCAGGCCCAATGATAT 3839
QY 2521 OCTGCAGATTATTAATTTGACCACTATTTATGACCGCTTGGAGCAAGGACACAA 2580
Db 3840 CCTGCAGATTATTAATTTGACCACTATTTATGACCGCTTGGAGCAAGGACACAA 3899
QY 2581 TTGGTCAAGCTCCTCTCTCGTGGATATGTCTGAACTGGTCTGATGATTTATGA 2640
Db 3900 TTGGTCAAGCTCCTCTCTCGTGGATATGTCTGAACTGGTCTGATGATTTATGA 3959
QY 2641 TACGGGACGACGAGGAGGATCCGTGCTCTTTAAACTGGCATCATTTCCCTGTG 2700
Db 3960 TACGGGACGACGAGGAGGATCCGTGCTCTTTAAACTGGCATCATTTCCCTGTG 4019
QY 2701 TAAAGCACATTTTGGAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGG 2760
Db 4020 TAAAGCACATTTTGGAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGG 4079
QY 2761 ATTTTGTGACGACGAGCTGGGCTCTCTTCTGATGATTTATFCAAAATFCCAAGACA 2820
Db 4080 ATTTTGTGACGACGAGCTGGGCTCTCTTCTGATGATTTATFCAAAATFCCAAGACA 4139
QY 2821 GTTGGTGAAGTTGCATCTTTGGGGCAGTAACTTGAGC 2861
Db 4140 GTTGGTGAAGTTGCATCTTTGGGGCAGTAACTTGAGC 4180

RESULT 4
US-09-845-416-36
; Sequence 36; Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 36
; LENGTH: 5060
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-36

Query Match 100.0%; Score 2861; DB 12; Length 5060;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2861; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCCAGACCTATTTGACTGGAATAGTGTGGTTGGCCAGAGTCAGCCACACAAAGCTTGA 60
Db 1532 GCCAGACCTATTTGACTGGAATAGTGTGGTTGGCCAGAGTCAGCCACACAAAGCTTGA 1591
QY 61 ACATGCAATCAACATCGCCAGATATCAATTAGGCAAGAGAACTACTCGATCCTGAAGA 120
Db 1592 ACATGCAATCAACATCGCCAGATATCAATTAGGCAAGAGAACTACTCGATCCTGAAGA 1651
QY 121 TGTGTGATGACCACTATCCAGATGAAGTCCATCTTAATGTACATCACTACTCTTCCA 180
Db 1652 TGTGTGATGACCACTATCCAGATGAAGTCCATCTTAATGTACATCACTACTCTTCCA 1711
QY 181 AGTTTGGCTTCAACAGTGAAGTGAAGCCATCCAGAGTGGAAATGTTGCCAAGGCC 240
Db 1712 AGTTTGGCTTCAACAGTGAAGTGAAGCCATCCAGAGTGGAAATGTTGCCAAGGCC 1771
QY 241 ACCATAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 300
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Db 1772 ACCTAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1831
QY 301 GATCAGCGTCAGCTAGCAGAGGATATGAGAAATCTTCCCTTAAGCCTGCGATCAAA 360
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QY 361 GAGCTATGCTACACAGAGCTGTTATGTCACCACTCTGACCTTACAGGAGGCCCAT 420
Db 1892 GAGCTATGCTACACAGAGCTGTTATGTCACCACTCTGACCTTACAGGAGGCCCAT 1951
QY 421 TCCTTACAGAGCTTTGGAGGCTCTGAGCAAGTCAATTTGGCAGTTTCATGATGAGAG 480
Db 1952 TCCTTACAGAGCTTTGGAGGCTCTGAGCAAGTCAATTTGGCAGTTTCATGATGAGAG 2011
QY 481 TGAAGTAAACCTGGGACCGTTATCAACAGCTTTAGAGAGTATATCTGCGGCTTCTTC 540
Db 2012 TGAAGTAAACCTGGGACCGTTATCAACAGCTTTAGAGAGTATATCTGCGGCTTCTTC 2071
QY 541 TGCTGAGGACATTTGCAAGCAGAGAGATTTCTAATGATGTGAAGTGTGAAGA 600
Db 2072 TGCTGAGGACATTTGCAAGCAGAGAGATTTCTAATGATGTGAAGTGTGAAGA 2131
QY 601 CCAGTTTCTACTCTAGAGGCTTACATGATGATTTGACCCCATCAGGCGCGGTTGG 660
Db 2132 CCAGTTTCTACTCTAGAGGCTTACATGATGATTTGACCCCATCAGGCGCGGTTGG 2191
QY 661 TAATATTTACAAATTTGGGAGTAACTGATGATGAGAGAGAAATATCAGAGATGAAGA 720
Db 2192 TAATATTTACAAATTTGGGAGTAACTGATGATGAGAGAGAAATATCAGAGATGAAGA 2251
QY 721 AACTGAGTACAGAGAGATGATTCCTTAATTAAGATGGAATGCTCAGGCTAGC 780
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QY 781 TAGCATGGAATAAACAATTTACATAGATGTTTAATGATCTCCAGATCAGAAAT 840
Db 2312 TAGCATGGAATAAACAATTTACATAGATGTTTAATGATCTCCAGATCAGAAAT 2371
QY 841 GAAAGAGTTGAATGACTGCTTAACAAAACAGAGAGAAAGAAAGAAATGAGAGAGA 900
Db 2372 GAAAGAGTTGAATGACTGCTTAACAAAACAGAGAGAAAGAAAGAAATGAGAGAGA 2431
QY 901 GCCTCTTGGACCTGATCTTGAAGACCTTAAAGCCCAAGTACACACATAGTGTCTCA 960
Db 2432 GCCTCTTGGACCTGATCTTGAAGACCTTAAAGCCCAAGTACACACATAGTGTCTCA 2491
QY 961 AGAGATCTAGAACAGAGAGTCAAGGTCATCTCTCTCCTCAGATGCTGCTGCTAGT 1020
Db 2492 AGAGATCTAGAACAGAGAGTCAAGGTCATCTCTCTCCTCAGATGCTGCTGCTAGT 2551
QY 1021 TGATGAATCTAGTGGAGATCAGCACTGCTTTTGAAGAAACAATTAAGGTATTTGG 1080
Db 2552 TGATGAATCTAGTGGAGATCAGCACTGCTTTTGAAGAAACAATTAAGGTATTTGG 2611
QY 1081 AGATCAGTGGCAACATCTCTAGTGGACAGAGACGCTGGGTCTCTTTTACAGACAC 1140
Db 2612 AGATCAGTGGCAACATCTCTAGTGGACAGAGACGCTGGGTCTCTTTTACAGACAC 2671
QY 1141 TCATAGATCTAGAACAGAGTCCCGCTGGACCTGGAAGTCTTCTGCTGCTGCTTACAGA 1200
Db 2672 TCATAGATCTAGAACAGAGTCCCGCTGGACCTGGAAGTCTTCTGCTGCTGCTTACAGA 2731
QY 1201 AGCTGAAACACTGCCAATGCTCTTACAGGATGCTCCCGTAAAGAAAGGCTCCTTAGAGA 1260
Db 2732 AGCTGAAACACTGCCAATGCTCTTACAGGATGCTCCCGTAAAGAAAGGCTCCTTAGAGA 2791
QY 1261 CTCAGAGGAGTAAAGAGCTGATGAAGCAATGGCAAGCTCCAGGTGAATTTGAAGC 1320
Db 2792 CTCAGAGGAGTAAAGAGCTGATGAAGCAATGGCAAGCTCCAGGTGAATTTGAAGC 2851
QY 1321 TCACACAGATGTTTATCAACACCTGGATGAAACAGCAAAATCTCTGAGATCCCTGGA 1380
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Db 2852 TCACACAGATGTTTATCACACACCTGGATGAAACACGCAAAAAATCCTGAGATCCCTCGGA 2911
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Db 2912 AGTTCCGATGATGAGTCCCTGTTACAAAGAGCTTTGGATACATGAACTTCAAGTGGAG 2971
QY 1441 TGAACCTCGGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTTCTGACCAAGT 1500
Db 2972 TGAACCTCGGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAAGCCAGTTCTGACCAAGT 3031
QY 1501 GAACGCTCTGCACCTTTCTCTGACAGGAACCTCTGTTGGTGTGCTACAGCTGAAAGATGATGA 1560
Db 3032 GAAGCTCTGCACCTTTCTCTGACAGGAACCTCTGTTGGTGTGCTACAGCTGAAAGATGATGA 3091
QY 1561 ATTAAAGCCGGCAGGACACTATTGAGCGGACCTTTCAGGAGTTCAGAGCAGAAACAGATGT 1620
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QY 1801 GGCTGAGAGGCTCAATAGTGTGGGAAAAATTGAACCTGCACCTCCGCTGACTGGCAGAG 1860
Db 3332 GGCTGAGAGGCTCAATAGTGTGGGAAAAATTGAACCTGCACCTCCGCTGACTGGCAGAG 3391
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Db 3392 AAAATAGATGAGACCTTTGAAAGACTCCAGGAACCTCAAGAGGCCAGGATGAGCTGGA 3511
QY 1921 CCTCAAGCTGCCGACGCTGAGTGATCAAGGATCCTGGCAGCCCTGGCGGATCTCTCT 1980
Db 3452 CCTCAAGCTGCCGACGCTGAGTGATCAAGGATCCTGGCAGCCCTGGCGGATCTCTCT 3511
QY 1981 CATGAGCTCTCTCAAGATCACTCTGAGAAAGTCAAGGACCTTCAGAGAGAAATGGGCT 2040
Db 3512 CATGAGCTCTCTCAAGATCACTCTGAGAAAGTCAAGGACCTTCAGAGAGAAATGGGCT 3571
QY 2041 TCTGAAAGAGAGCTGAGCCAGCTGATGAGCTGCTGCGCAGCTTACACCTTTGGGCAAT 2100
Db 3572 TCTGAAAGAGAGCTGAGCCAGCTGATGAGCTGCTGCGCAGCTTACACCTTTGGGCAAT 3631
QY 2101 TCAGCTCTCACCGTATACCTCAGCAGCTCTGGAGACCTGAAACACAGATGGAAGCTTCT 2160
Db 3632 TCAGCTCTCACCGTATACCTCAGCAGCTCTGGAGACCTGAAACACAGATGGAAGCTTCT 3691
QY 2161 GCAGGTGGCGCTGAGGACCGAGTCAAGGATGATGAGCCACAGGACTTTGGTCC 2220
Db 3692 GCAGGTGGCGCTGAGGACCGAGTCAAGGATGATGAGCCACAGGACTTTGGTCC 3751
QY 2221 AGCATCTCAGACCTTTCTTTTCCAGCTCTGTCAGGGTCCCTGGGAGAGAGCCATCTGCC 2280
Db 3752 AGCATCTCAGACCTTTCTTTTCCAGCTCTGTCAGGGTCCCTGGGAGAGAGCCATCTGCC 3811
QY 2281 AACAAGAGTCCCTACTATATCAACACGAGACCTCAACACACTTCTGGGACCAATCCAA 2340
Db 3812 AACAAGAGTCCCTACTATATCAACACGAGACTCAACAACTTCTGGGACCAATCCAA 3871
QY 2341 AATGACAGAGCTTACAGCTTTTAGCTGACCTGAATGATGATGATGATGATGATGATGAT 2400
Db 3872 AATGACAGAGCTTACAGCTTTTAGCTGACCTGAATGATGATGATGATGATGATGATGAT 3931
QY 2401 GACTGCCATGAAACTCCGAGAGACTGCAGAGGCCCTTTGCTTGGATCTCTTGAGCCTGTC 2460
Db 3932 GACTGCCATGAAACTCCGAGAGACTGCAGAGGCCCTTTGCTTGGATCTCTTGAGCCTGTC 3991

QY 2461 AGCTGCATGTGATGCTTGGACCAACACACCTCAAGCAAAATGACCAAGCCCATGGATAT 2520
Db 3992 AGCTGCATGTGATGCTTGGACCAACACACCTCAAGCAAAATGACCAAGCCCATGGATAT 4051
QY 2521 CCTGCAGATTAATAATTTGTTGACCACTATTATGACCGCTTGGAGCAAGACACACAA 2580
Db 4052 CCTGCAGATTAATAATTTGTTGACCACTATTATGACCGCTTGGAGCAAGACACACAA 4111
QY 2581 TTTGGTCAACGCTCCCTCTCTCGTGGATATGTCGTAACCTGCTGCTGCTGCTGCTGCTG 2640
Db 4112 TTTGGTCAACGCTCCCTCTCTCGTGGATATGTCGTAACCTGCTGCTGCTGCTGCTGCTG 4171
QY 2641 TACGGGACGAACAGGAGGATCCCTGCTCTTTTAAACTGCTGCTGCTGCTGCTGCTGCTG 2700
Db 4172 TACGGGACGAACAGGAGGATCCCTGCTCTTTTAAACTGCTGCTGCTGCTGCTGCTGCTG 4231
QY 2701 TAAAGCACATTTGGAAGCAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTCAACAGG 2760
Db 4232 TAAAGCACATTTGGAAGCAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTCAACAGG 4291
QY 2761 ATTTTGTGACCGCAGGCTGGGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2820
Db 4292 ATTTTGTGACCGCAGGCTGGGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 4351
QY 2821 GTTGGGTGAAGTTGCATCCCTTTGGGGGCGAGTAACATTTGAGC 2861
Db 4352 GTTGGGTGAAGTTGCATCCCTTTGGGGGCGAGTAACATTTGAGC 4392

RESULT 5
US-09-845-416-6
; Sequence 6, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 6
; LENGTH: 3999
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-6

Query Match 94.7%; Score 2710; DB 12; Length 3999;
Best Local Similarity 95.3%; Pred. No. 0;
Matches 2861; Conservative 0; Mismatches 0; Indels 141; Gaps 1;
QY 1 GCCAGACCTATTGACTTGGATAGTGTGTTGGCAGCTGAGCCACACACACGACTGGA 60
Db 540 GCCAGACCTATTGACTTGGATAGTGTGTTGGCAGCTGAGCCACACACACGACTGGA 599
QY 61 ACATGATCAATCAACATGCCAGATATCAATAGGATAGAGAACTACTCGATCTGAGAGA 120
Db 600 ACATGATCAATCAACATGCCAGATATCAATAGGATAGAGAACTACTCGATCTGAGAGA 659
QY 121 GTTGTATACCACTATCCAGATAGAACTCCATCTTATGTATCATCATCATCTCTTCCA 180
Db 660 GTTGTATACCACTATCCAGATAGAACTCCATCTTATGTATCATCATCATCTCTTCCA 719
QY 181 AGTTTTCCTCAACAAGTGGATGAAGCCATCCAGCAAGTGAATTTGCCAAGGCC 240
Db 720 AGTTTTCCTCAACAAGTGGATGAAGCCATCCAGCAAGTGAATTTGCCAAGGCC 779
QY 241 ACCTAAAGTGAATAAGAGAACATTTTCACTTACATCATCAATCACTATCTCAACA 300

Dd 780 ACCTAAGTGTAGTAAGAGAACATTTTCAGTTACATCATCAATGCATATTCACACA 839
Qy
301 GATCAGGTCAGTCTAGCACAGGATATGAGAGAACTTCTCCCTTAAGCCTTCGATTCAA 360
Dd
840 GATCAGGTCAGTCTAGCACAGGATATGAGAGAACTTCTCCCTTAAGCCTTCGATTCAA 899
Qy
361 GAGCTATGCTTACACACAGGTCGTATATGTACACACCTCTGACCTTACAGGAGGCCAT 420
Dd
900 GAGCTATGCTTACACACAGGTCGTATATGTACACACCTCTGACCTTACAGGAGGCCAT 959
Qy
421 TCCTTACAGCATTTGGAAGCTCTCGAAGACAAGTATTTGGCAGTTTCATTCATGAGAG 480
Dd
960 TCCTTACAGCATTTGGAAGCTCTCGAAGACAAGTATTTGGCAGTTTCATTCATGAGAG 1019
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481 TGAAGTAACTCGACCGTTATCAACAGCTTTTGAAGAAGTATTCATGCTGCTTCCTTC 540
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541 TCCTGAGGACACATTCGACAGCACAGGAGAGATTTCTAATGATGTGGAAGTGTGGAAGA 600
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1080 TCCTGAGGACACATTCGACAGCACAGGAGAGATTTCTAATGATGTGGAAGTGTGGAAGA 1139
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601 CCAAGTTTCATCTCATGAGGGTACATGATGATGATTTGACAGCCCATCAGGGCCGGTTGG 660
Dd
1140 CCAAGTTTCATCTCATGAGGGTACATGATGATGATTTGACAGCCCATCAGGGCCGGTTGG 1199
Qy
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Dd
1200 TAATATTTCTAATTTGGAGTAAGCTGATTTGGACAGGAAATTTATCAGAAGATGAAGA 1259
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721 AACTGAAGTACACAGACAGATGAATCTCTAATTAATCAAGATGGGAATGCTCAGGGTAGC 780
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1260 AACTGAAGTACACAGACAGATGAATCTCTAATTAATCAAGATGGGAATGCTCAGGGTAGC 1319
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781 TAGCATGGAATAAACAAGCAATTTACATAGAGTTTTTAATGATCTCCGAATPCAGAACT 840
Dd
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Dd
1380 GAAAGAGTTGAATGACTGGCTTACAAAACAGAGAAGAAAGCAAGGAAATGAGGAGAGA 1439
Qy
901 GCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCCAAGTACAAACAATAGAGTCTTCA 960
Dd
1440 GCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCCAAGTACAAACAATAGAGTCTTCA 1499
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961 AGAAGATCTAGAACAGACAGTACAGGTCATTTCTCAGTCATGCTGGTGGTGGTAGT 1020
Dd
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Qy
1021 TGATGAATCTAGTGGAGTACAGCAACTGCTGCTTTTGGAGAACAACCTTAAGGTATTGGG 1080
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1560 TGATGAATCTAGTGGAGTACAGCAACTGCTGCTTTTGGAGAACAACCTTAAGGTATTGGG 1619
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1081 AGATCGATGGCAACAACATCTGTAGATGGAAGAGACCGCTGGGTTCTTTTACAAGAC-- 1138
Dd
1620 AGATCGATGGCAACAACATCTGTAGATGGAAGAGACCGCTGGGTTCTTTTACAAGACCA 1679
Qy
1139 ----- 1138
Dd
1680 GCTGAGCTAGCTCCTGGACTGACCACTAATTTGAGAGCCTCTCTACTCAGACTGTTACTCT 1739
Qy
1139 ----- 1138
Dd
1740 GGTGACACAACCTCTGCTTACTAAGGAACCTGCCATCTCCAAACTAGAAATGCCATCTTC 1799
Qy
1139 ----- ACTCATAGATTAAGTCAACAGTTCCTCCCTGGAACCTGGAAAA 1179
Dd
1800 CTTGATGTTGGAGTACCTACTCATAGATTAAGTCAACAGTTCCTCCCTGGAACCTGGAAAA 1859
Qy
1180 GTTCTTGGCTTACAGAGCTGAACAACTGCAATGCTCTACAGGATGCTACCCG 1239
Dd
1860 GTTCTTGGCTTACAGAGCTGAACAACTGCAATGCTCTACAGGATGCTACCCG 1919

Qy 1240 TAAGGAAGAGCTCTCTAGAAAGACTCCAAGSAGTAAAGAGCTGATGAACAATGSCAAGA 1299
Dd 1920 TAAGGAAGAGCTCTCTAGAAAGACTCCAAGSAGTAAAGAGCTGATGAACAATGSCAAGA 1979
Qy 1300 CCTCCAAAGTGAATTTGAGAGCTCACACAGATGTTTATCAACAACCTGGATGAACAAGCCA 1359
Dd 1980 CCTCCAAAGTGAATTTGAGAGCTCACACAGATGTTTATCAACAACCTGGATGAACAAGCCA 2039
Qy 1360 AAAATTCCTGAGATCCTCGAAGGTTCCGATGATGTCAGTCTCTTACAAAACGCTTTTGGGA 1419
Dd 2040 AAAATTCCTGAGATCCTCGAAGGTTCCGATGATGTCAGTCTCTTACAAAACGCTTTTGGGA 2099
Qy 1420 TAACTGAATCTCAAGTGGAGTGAATCTCGGAAAAGTCTCTCAACATTTAGTCCCATTT 1479
Dd 2100 TAACTGAATCTCAAGTGGAGTGAATCTCGGAAAAGTCTCTCAACATTTAGTCCCATTT 2159
Qy 1480 GGAAGCCAGTTCTGACAGTGGAGGCTCTGACCTTTCTCTCAGAGAACTTCTGGTGTG 1539
Dd 2160 GGAAGCCAGTTCTGACAGTGGAGGCTCTGACCTTTCTCTCAGAGAACTTCTGGTGTG 2219
Qy 1540 GCTACAGTGAAGAAGATGATTAATTAAGCCGCGACGACCTTATTGGAGGCGACTTTCCAGC 1599
Dd 2220 GCTACAGTGAAGAAGATGATTAATTAAGCCGCGACGACCTTATTGGAGGCGACTTTCCAGC 2279
Qy 1600 AGTTTCAGAGCAGACAGTGTACATAGGCGCTTCAAGAGGGAATTTGAARACTTAAGAAC 1659
Dd 2280 AGTTTCAGAGCAGACAGTGTACATAGGCGCTTCAAGAGGGAATTTGAARACTTAAGAAC 2339
Qy 1660 TGTATCATGATGACTCTTGTGAGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAAG 1719
Dd 2340 TGTATCATGATGACTCTTGTGAGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAAG 2399
Qy 1720 ACTAGAGAACTCTPACAGAGCAGAGAGAGTGTGCTCTCTGAGAGAGAGCCAGCAATGT 1779
Dd 2400 ACTAGAGAACTCTPACAGAGCAGAGAGAGTGTGCTCTCTGAGAGAGAGCCAGCAATGT 2459
Qy 1780 CACTCGGCTTCTACGAAAGCAGGCTGAGAGGTCAATACTGAGTGGGAAAAATTTGAACCT 1839
Dd 2460 CACTCGGCTTCTACGAAAGCAGGCTGAGAGGTCAATACTGAGTGGGAAAAATTTGAACCT 2519
Qy 1840 GCATCTCGCTGACTGGCAGAGAAAAATAGATGAGACCTTTGAAAGACTCCAGAACTTCA 1899
Dd 2520 GCATCTCGCTGACTGGCAGAGAAAAATAGATGAGACCTTTGAAAGACTCCAGAACTTCA 2579
Qy 1900 AGAGCCACGATGAGCTGAGCCTCAAGCTGCGCCAGCTGAGGTGATCAAGGGATCTTG 1959
Dd 2580 AGAGCCACGATGAGCTGAGCCTCAAGCTGCGCCAGCTGAGGTGATCAAGGGATCTTG 2639
Qy 1960 GCAGCCCTGGGCGATCTCTCATTTGACTCTCTCCAAAGATCACTCGAAGAAAGTCAAGGC 2019
Dd 2640 GCAGCCCTGGGCGATCTCTCATTTGACTCTCTCCAAAGATCACTCGAAGAAAGTCAAGGC 2099
Qy 2020 ACTTCAGAGAGAAATTTGCGCTCTGAAAGAGAAAGTGAAGCCAGCTCAATGACTTTGCTG 2079
Dd 2700 ACTTCAGAGAGAAATTTGCGCTCTGAAAGAGAAAGTGAAGCCAGCTCAATGACTTTGCTG 2759
Qy 2080 CCAGCTTACCACTTTGGGCACTTCACTCTCAGCCTATTAACCTCAGCACTCTCGAAGACT 2139
Dd 2760 CCAGCTTACCACTTTGGGCACTTCACTCTCAGCCTATTAACCTCAGCACTCTCGAAGACT 2819
Qy 2140 GAACACAGATGGAAGCTTCTGAGTGGCGCTCGAGAGCCAGTCAAGCTGAGTCAATGA 2199
Dd 2820 GAACACAGATGGAAGCTTCTGAGTGGCGCTCGAGAGCCAGTCAAGCTGAGTCAATGA 2879
Qy 2200 AGCCACAGGAGCTTTGGTCCAGCATCTCAGCACTTTTTCACAGCTCTGTCAGGCTCC 2259
Dd 2880 AGCCACAGGAGCTTTGGTCCAGCATCTCAGCACTTTTTCACAGCTCTGTCAGGCTCC 2939
Qy 2260 CTGGAGAGAGCCATCTGCGCCAAAACAAAGTGCCTTACTATATCAACACAGAGCTCAAC 2319
Dd 2940 CTGGAGAGAGCCATCTGCGCCAAAACAAAGTGCCTTACTATATCAACACAGAGCTCAAC 2999

QY 1139 ----- 1138
Db 2497 GGTGACACAACTGTGGTACTAAGGAAACTGCCATCTCCAAACTAGAAATGCCATCTTC 2556
QY 1139 -----ACTCATAGATTACTGCAACAGTTCGCCCTGGACCTGGAAAA 1179
Db 2557 CTTGATGTTGGAGTACCTACTCATAGATTACTGCAACAGTTCGCCCTGGACCTGGAAAA 2616
QY 1180 GTTCTTCCCTGGCTTACAGAGCTGAACAACTGCCAATGTCTTACAGAGTGTACCCG 1239
Db 2617 GTTCTTCCCTGGCTTACAGAGCTGAACAACTGCCAATGTCTTACAGAGTGTACCCG 2676
QY 1240 TAAGAAAGGCTCTAGAGACTCCAAAGGAGTAAAGAGCTGATGAACAAATGCCAAGA 1299
Db 2677 TAAGAAAGGCTCTAGAGACTCCAAAGGAGTAAAGAGCTGATGAACAAATGCCAAGA 2736
QY 1300 CTTCAAGGTGAATTAAGCTCACACAGATGTTTATCACAACCTGGATGAACAAAGCA 1359
Db 2737 CTTCAAGGTGAATTAAGCTCACACAGATGTTTATCACAACCTGGATGAACAAAGCA 2796
QY 1360 AAAATCCTGAGATCCCTGGAAGTTCGATGATGCGAGTCTCTTCAAGAGCTTTGGA 1419
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QY 1420 TAACATGAACTTCAAGTGGAGTGAACCTCGGAAAGTCTCTCAACATTAAGTCCCATTT 1479
Db 2857 TAACATGAACTTCAAGTGGAGTGAACCTCGGAAAGTCTCTCAACATTAAGTCCCATTT 2916
QY 1480 GGAAGCAAGTCTGACCAAGTGAAGCTCTGCACTTCTCTGCGAAGAACTTCTGGTGTG 1539
Db 2917 GGAAGCAAGTCTGACCAAGTGAAGCTCTGCACTTCTCTGCGAAGAACTTCTGGTGTG 2976
QY 1540 GCTACAGCTGAAGATGATGAATTAAGCGCGCAGCAGCTTATGAGAGCGACTTCCACG 1599
Db 2977 GCTACAGCTGAAGATGATGAATTAAGCGCGCAGCAGCTTATGAGAGCGACTTCCACG 3036
QY 1600 AGTTCAAGAGCAGAACATGATACATAGGCGCTTCAAGAGGGAATTAAGAACTAAAGAAC 1659
Db 3037 AGTTCAAGAGCAGAACATGATACATAGGCGCTTCAAGAGGGAATTAAGAACTAAAGAAC 3096
QY 1660 TGTAAATCATGAGTACTTGTAGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAAG 1719
Db 3097 TGTAAATCATGAGTACTTGTAGACTGTACGAATATTTCTGACAGAGCAGCTTTGGAAG 3156
QY 1720 ACTAGAGAACTCTACAGAGAGCCAGAGAGCTGCTCTCTGAGAGAGAGCCCAAGATGT 1779
Db 3157 ACTAGAGAACTCTACAGAGAGCCAGAGAGCTGCTCTCTGAGAGAGAGCCCAAGATGT 3216
QY 1780 CACTCGGCTTCTACGAAGCAGAGCTGAGGAGTCAATACTAGTGGGAAAAATTTGAACCT 1839
Db 3217 CACTCGGCTTCTACGAAGCAGAGCTGAGGAGTCAATACTAGTGGGAAAAATTTGAACCT 3276
QY 1840 GCATCTCGTGTACTGGCAGAGAAATATAGATGAGACCTTTGAAAGACTCCAGGAACTTCA 1899
Db 3277 GCATCTCGTGTACTGGCAGAGAAATATAGATGAGACCTTTGAAAGACTCCAGGAACTTCA 3336
QY 1900 AGAGGCCAGGATGAGCTGAGCTCAAGCTGCGCAAGCTGAGTGTATCAAGGATCCCTG 1959
Db 3337 AGAGGCCAGGATGAGCTGAGCTCAAGCTGCGCAAGCTGAGTGTATCAAGGATCCCTG 3396
QY 1960 GCAGCCCGTGGCGATCCCTCATGTACTCTCTCCAGATCACTCTGAGAAAGTCAAGC 2019
Db 3397 GCAGCCCGTGGCGATCCCTCATGTACTCTCTCCAGATCACTCTGAGAAAGTCAAGC 3456
QY 2020 ACTTCAGAGAGAAATGGCGCTCTGAAAGAGAGCTGAGCCAGCTCAATGACCTGCTCG 2079
Db 3457 ACTTCAGAGAGAAATGGCGCTCTGAAAGAGAGCTGAGCCAGCTCAATGACCTGCTCG 3516
QY 2080 CCAGCTTACACTTTGGCACTTACGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACT 2139
Db 3517 CCAGCTTACACTTTGGCACTTACGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACT 3576
QY 2140 GAACACAGATGAAGCTTCTGCGAGTGGCGCTGCGAGGAGCCAGCTCAGGAGCTGCA 2199

Db 3577 GARCACAGATGAAGCTTCTGCAAGTGGCGCTGAGGACCGAGTCAGGAGCTGTCATGA 3636
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Db 3637 AGCCACAGAGGACTTTGGTCCAGCATCTCAGCACTTTCTTTCCAGCTGTCTCCAGGCTC 3696
QY 2260 CTGGGAGAGAGCCATCTCGCAACAAAGTGGCTTACTATATCAACACAGAGCTCAAC 2319
Db 3697 CTGGGAGAGAGCCATCTCGCAACAAAGTGGCTTACTATATCAACACAGAGCTCAAC 3756
QY 2320 AACTTGTCTGGAGCCATCCCAAAATGACAGAGCTCTACCACTTTTAGCTGACCTGAATA 2379
Db 3757 AACTTGTCTGGAGCCATCCCAAAATGACAGAGCTCTACCACTTTTAGCTGACCTGAATA 3816
QY 2380 TGTCAAGATCTCAGCTTATAGAGCTGCGATGAACCTCGAAGAGCTGCGAAGGCGCTTTG 2439
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QY 2440 CTTGGATCTCTGAGCCTCTCAGCTGCGATGATGCGCTTGGACACAGACCAACCTCAAGCA 2499
Db 3877 CTTGGATCTCTGAGCCTCTCAGCTGCGATGATGCGCTTGGACACAGACCAACCTCAAGCA 3936
QY 2500 AAATGACACAGCCATGGATATCTCTGAGATTAATTTGTTTGAACCACTATTTATGACCG 3559
Db 3937 AAATGACACAGCCATGGATATCTCTGAGATTAATTTGTTTGAACCACTATTTATGACCG 3996
QY 2560 CTTGGAGAGAGAGCAACAATTTGGTCAAGCTCCCTCTCTCGTGGATATGCTCTGAA 2619
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QY 2620 CTGGCTGTGAATGTTTATGATACGGGAGCAACAGGAGGATCCGCTGCTCTTTTAA 2679
Db 4057 CTGGCTGTGAATGTTTATGATACGGGAGCAACAGGAGGATCCGCTGCTCTTTTAA 4116
QY 2680 AACTGGCATCATTTCCCTGTGTAAAGACATTTGGAAGACAAAGTCAAGATACCTTTCAA 2739
Db 4117 AACTGGCATCATTTCCCTGTGTAAAGACATTTGGAAGACAAAGTCAAGATACCTTTCAA 4176
QY 2740 GCAAGTGGCAGATCAACAGGATTTTGGACACAGGAGCTGGCTCTCTCTGATGA 2799
Db 4177 GCAAGTGGCAGATTTCAACAGGATTTTGGACACAGGAGCTGGCTCTCTCTGATGA 4236
QY 2800 TTCTATCCAAATTCGAAGACAGTGGGTGAAGTTGCACTCTTTGGGCGCAGTAACATTGA 2859
Db 4237 TTCTATCCAAATTCGAAGACAGTGGGTGAAGTTGCACTCTTTGGGCGCAGTAACATTGA 4296
QY 2860 GC 2861
Db 4297 GC 4298

RESULT 7

US-09-845-416-34
; Sequence 34, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 4990
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-34

Query Match	94.7%;	Score 2710;	DB 12;	Length 4990;
Best Local Similarity	95.3%;	Pred. No. 0;		
Matches 2861;	Conservative 0;	Mismatches 0;	Indels 141;	Gaps 1;
1	GCACGACCTATTTGACCTGGNATAGTGTGGTTGGCCACCACTAGCCACACACACACGACTTGGGA	60		
1321	GCACGACCTATTTGACCTGGNATAGTGTGGTTGGCCACCACTAGCCACACACACGACTTGGGA	1380		
61	ACATGCATTCAACATCCGACAGATATCAATATAGGCATAGAGAAACTACTCGATCCTCGAAGA	120		
1381	ACATGCATTCAACATCCGACAGATATCAATATAGGCATAGAGAAACTACTCGATCCTCGAAGA	1440		
121	TGTTGATACCCACCTATCCAGATAAAGAAGTCCATCTTAATGTACATACATCACTCTTCCA	180		
1441	TGTTGATACCCACCTATCCAGATAAAGAAGTCCATCTTAATGTACATACATCACTCTTCCA	1500		
181	AGTTTGTGCTCAACAAGTGGACATGAGGCCATCCAGGAAGTGGAAATGTTGCCAAGGCC	240		
1501	AGTTTGTGCTCAACAAGTGGACATGAGGCCATCCAGGAAGTGGAAATGTTGCCAAGGCC	1560		
241	ACCTAAAGTGACTAAAGAAACAATTTTCAGTTACATCATCAAAATGCATATTTCTCAACA	300		
1561	ACCTAAAGTGACTAAAGAAACAATTTTCAGTTACATCATCAAAATGCATATTTCTCAACA	1620		
301	GATCAGGTCAGTCTAGCACAGGATATGAGAGAACTTCTCCCTTAAGCCTCGATTCAA	360		
1621	GATCAGGTCAGTCTAGCACAGGATATGAGAGAACTTCTCCCTTAAGCCTCGATTCAA	1680		
361	GAGCTATGCCTACACACAGGCTGCTTATGTACACACCTCTGACCCCTACACGAGGCCATTT	420		
1681	GAGCTATGCCTACACACAGGCTGCTTATGTACACACCTCTGACCCCTACACGAGGCCATTT	1740		
421	TCCTTTCACAGCATTTTGGAAAGCTCCTGAGACAAAGTTCATTTGGCAGTTTCATTGATGGAGAG	480		
1741	TCCTTTCACAGCATTTTGGAAAGCTCCTGAGACAAAGTTCATTTGGCAGTTTCATTGATGGAGAG	1800		
481	TGAAGTAAACCTGGACCGTTTATCAACAGCTTTTAGAAGAAGTATTATCGTGGCTTCTTTC	540		
1801	TGAAGTAAACCTGGACCGTTTATCAACAGCTTTTAGAAGAAGTATTATCGTGGCTTCTTTC	1860		
541	TGCTGAGGACACATTTGAACACAGGAGAGATTTCTAATGATGTGGAGTGGTCAAGA	600		
1861	TGCTGAGGACACATTTGAACACAGGAGAGATTTCTAATGATGTGGAGTGGTCAAGA	1920		
601	CCAGTTTCATCTCATGAGGGGTACATGATGGATTTCACAGCCCATCAGGCGCGGGTTGG	660		
1921	CCAGTTTCATCTCATGAGGGGTACATGATGGATTTCACAGCCCATCAGGCGCGGGTTGG	1980		
661	TAAATCTACAAATTTGGGAAGTAGCTGATTTGGACAGGAGAAATTTATCAGAAGATGAAGA	720		
1981	TAAATCTACAAATTTGGGAAGTAGCTGATTTGGACAGGAGAAATTTATCAGAAGATGAAGA	2040		
721	AACCTGAAGTACAGAGCAGATGAATCTCTCAATTTCAAGATGGGAATGCTCAGGGTAGC	780		
2041	AACCTGAAGTACAGAGCAGATGAATCTCTCAATTTCAAGATGGGAATGCTCAGGGTAGC	2100		
781	TAGCATGGAAAAACAAGCAATTTACATAGATTTTTTAATGSAATCTCCGAATATCAGAAACT	840		
2101	TAGCATGGAAAAACAAGCAATTTACATAGATTTTTTAATGSAATCTCCGAATATCAGAAACT	2160		
841	GAAAGAGTTGAATGACTGGCTTAACAAAAACAGAGAAAGAACAGGAAATGGAGGAAGA	900		
2161	GAAAGAGTTGAATGACTGGCTTAACAAAAACAGAGAAAGAACAGGAAATGGAGGAAGA	2220		
901	GCCTCTTGGACCTGATCTTGAAGNCCTTAAAGCCCAAGTACACACATAAAGGTGCTTCA	960		
2221	GCCTCTTGGACCTGATCTTGAAGNCCTTAAAGCCCAAGTACACACATAAAGGTGCTTCA	2280		
961	AGAAGATCTAGAACAGAACAAAGTTCAGGGTCAATTTCTCTCACTACATGGTGGTGTAGT	1020		
2281	AGAAGATCTAGAACAGAACAAAGTTCAGGGTCAATTTCTCTCACTACATGGTGGTGTAGT	2340		
1021	TGATGAATCTAGTGAGATCACGCAACTGCTGCTTTTGGAGAACACAACTTAAGGTATTGGG	1080		

Db 3421 GCAGCCGCGGGGATCTCTCTGACTCTCTCCAAAGATCACTCGAGAAGTCAAGC 3480
QY 2020 ACTTCAGAGAGAAATTTGGCCCTCTGAAGAAGACGTGAGCCACGTCATGACCTTCTCG 2079
Db 3481 ACTTCAGAGAGAAATTTGGCCCTCTGAAGAAGACGTGAGCCACGTCATGACCTTCTCG 3540
QY 2080 CCAGCTTACACTTTGGCCATTCAGCTCTCACCGTATACCTTCAGCAGCTCTGGAAGACCT 2139
Db 3541 CCAGCTTACACTTTGGCCATTCAGCTCTCACCGTATACCTTCAGCAGCTCTGGAAGACCT 3600
QY 2140 GAACACAGATGAAGCTTTCTGAGGTGGCCGTCGAGGACCGAGTCAGGAGCTGCATGA 2199
Db 3601 GAACACAGATGAAGCTTTCTGAGGTGGCCGTCGAGGACCGAGTCAGGAGCTGCATGA 3660
QY 2200 AGCCACAGGAGCTTTGGTCCAGCATCTCAGACACTTCTTCCAGCTCTGTCAGGGTCC 2259
Db 3661 AGCCACAGGAGCTTTGGTCCAGCATCTCAGACACTTCTTCCAGCTCTGTCAGGGTCC 3720
QY 2260 CTGGGAGAGAGCATCTCGCCAAACAAAGTGCCCTACTATATCAACCACGAGACTCAAC 2319
Db 3721 CTGGGAGAGAGCATCTCGCCAAACAAAGTGCCCTACTATATCAACCACGAGACTCAAC 3780
QY 2320 AACTTGTGGGACCATCCCAAAATGACAGAGCTCTACAGCTTTTAGTCACTGATGAATA 2379
Db 3781 AACTTGTGGGACCATCCCAAAATGACAGAGCTCTACAGCTTTTAGTCACTGATGAATA 3840
QY 2380 TGTCAATCTCAGCTTATGAGCTGCCATGAAGTCCGAGACTCCGAGAGCTGAGAGGCCCTT 2439
Db 3841 TGTCAATCTCAGCTTATGAGCTGCCATGAAGTCCGAGACTCCGAGAGCTGAGAGGCCCTT 3900
QY 2440 CTTGGATCTCTTGAGCCCTGTGATGATGATGATGATGATGATGATGATGATGATGATG 2499
Db 3901 CTTGGATCTCTTGAGCCCTGTGATGATGATGATGATGATGATGATGATGATGATGATG 3960
QY 2500 AATGACAGAGCCATGATCTCTGAGATTAATTAATTAATTAATTAATTAATTAATTAAT 2559
Db 3961 AATGACAGAGCCATGATCTCTGAGATTAATTAATTAATTAATTAATTAATTAATTAAT 4020
QY 2560 CTTGGAGAGAGAGCAACAATTTGGTCAAGCTCCCTCTCTCTCTCTCTCTCTCTCTCT 2619
Db 4021 CTTGGAGAGAGAGCAACAATTTGGTCAAGCTCCCTCTCTCTCTCTCTCTCTCTCTCT 4080
QY 2620 CTGGCTGCTGAATTTATGATAGCGGAGCAACAGGAGGATCCGCTCTCTCTCTCTCTCT 2679
Db 4081 CTGGCTGCTGAATTTATGATAGCGGAGCAACAGGAGGATCCGCTCTCTCTCTCTCTCT 4140
QY 2680 AACTGATCATCTTCCCTGCTGAAGACAGATTTGGAGACAGTACAGATACCTTTTCAA 2739
Db 4141 AACTGATCATCTTCCCTGCTGAAGACAGATTTGGAGACAGTACAGATACCTTTTCAA 4200
QY 2740 GCAAGTGGCAAGTTCAACAGATTTTGTGACAGCGCGAGGCTGGGCTCTCTCTCTCTCT 2799
Db 4201 GCAAGTGGCAAGTTCAACAGATTTTGTGACAGCGCGAGGCTGGGCTCTCTCTCTCTCT 4260
QY 2800 TTCTATCCAAATTCGAAGAGTGGGTGAAGTTCATCTCTCTCTCTCTCTCTCTCTCTCTCT 2859
Db 4261 TTCTATCCAAATTCGAAGAGTGGGTGAAGTTCATCTCTCTCTCTCTCTCTCTCTCTCTCT 4320
QY 2860 GC 2861
Db 4321 GC 4322

RESULT 8
US-09-845-416-2
; Sequence 2, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416

; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4182
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-2

Query Match 88.3%; Score 2527; DB 12; Length 4182;
Best Local Similarity 89.8%; Pred. No. 0;
Matches 2861; Conservative 0; Mismatches 0; Indels 324; Gaps 1;
QY 1 GCCAGACCTTATTGACTGGAAATAGTGTGGTTGCCAGCAGTCAGCCACACAGACTGGA 60
Db 540 GCCAGACCTTATTGACTGGAAATAGTGTGGTTGCCAGCAGTCAGCCACACAGACTGGA 599
QY 61 ACATGCAATTCACATCGCCAGATATCAATTAGGCATAGAGAACTACTCTGATCCTGAAGA 120
Db 600 ACATGCAATTCACATCGCCAGATATCAATTAGGCATAGAGAACTACTCTGATCCTGAAGA 659
QY 121 TGTGTATACCACTATCCAGATAAGAGTCCATCTTAATGTACATCACTCACTCTTCCA 180
Db 660 TGTGTATACCACTATCCAGATAAGAGTCCATCTTAATGTACATCACTCACTCTTCCA 719
QY 181 AGTTTGGCCCTCAACAGTGAAGTGAAGCCATCCAGGAGTGGAAATGTGGCAAGGCC 240
Db 720 AGTTTGGCCCTCAACAGTGAAGTGAAGCCATCCAGGAGTGGAAATGTGGCAAGGCC 779
QY 241 ACCTAAGTGACTCAAGAGAAACATTTTCAGTTACATCACTCAATGCACTATTTCAACA 300
Db 780 ACCTAAGTGACTCAAGAGAAACATTTTCAGTTACATCACTCAATGCACTATTTCAACA 839
QY 301 GATCAGCGTCACTGACACAGGATATGAGAGAACTTCTCCCTAAGCCTCGATTTCAA 360
Db 840 GATCAGCGTCACTGACACAGGATATGAGAGAACTTCTCCCTAAGCCTCGATTTCAA 899
QY 361 GAGTATGCTTACACAGAGGCTGTTATGTCACCACTCTGACCCCTACAGGAGCCCAT 420
Db 900 GAGTATGCTTACACAGAGGCTGTTATGTCACCACTCTGACCCCTACAGGAGCCCAT 959
QY 421 TCCTTCACAGCAATTTGGAAGCTCTGAGACAGTCAATTTGSCAGTTCATTGATGAGAG 480
Db 960 TCCTTCACAGCAATTTGGAAGCTCTGAGACAGTCAATTTGSCAGTTCATTGATGAGAG 1019
QY 481 TGAAGTAAACCTGGACCGCTTATCAACAGCTTTAGAGAACTATTTATCGTGGCTTCTTTC 540
Db 1020 TGAAGTAAACCTGGACCGCTTATCAACAGCTTTAGAGAACTATTTATCGTGGCTTCTTTC 1079
QY 541 TGCTGAGGACATTTGCAAGCAGAGAGATTTCTAATGATGTTGAAGTGTGGAAGA 600
Db 1080 TGCTGAGGACATTTGCAAGCAGAGAGATTTCTAATGATGTTGAAGTGTGGAAGA 1139
QY 601 CCAGTTTCACTATCAGGGGTACATGATGATTTGACGCCCATCAGGGCCGGGTGG 660
Db 1140 CCAGTTTCACTATCAGGGGTACATGATGATTTGACGCCCATCAGGGCCGGGTGG 1199
QY 661 TAATATTCACAAATTTGGGAAGTGAAGTGGTGAACAGAGAAATATTCAGAGATGAAGA 720
Db 1200 TAATATTCACAAATTTGGGAAGTGAAGTGGTGAACAGAGAAATATTCAGAGATGAAGA 1259
QY 721 AACTGAAGTACAAGAGCAGATGATCTCTCTAATTAAGTGAAGTGAAGTGAAGTGAAG 780
Db 1260 AACTGAAGTACAAGAGCAGATGATCTCTCTAATTAAGTGAAGTGAAGTGAAGTGAAG 1319
QY 781 TAGCATGGAAGAAACAAAGCAATTTACATAGATTTTAATGGATCTCCAGAAATCAGAACT 840
Db 1320 TAGCATGGAAGAAACAAAGCAATTTACATAGATTTTAATGGATCTCCAGAAATCAGAACT 1379
QY 841 GAAAGAGTTGATGCTGGCTTACAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 900

Db 1380 GBAAGAGTGAATGACTGGCTACACAAACACAGACAGACAGAAATGGAGGA 1439
Qy 901 GCCTCTTGGACCTGATCTTGAAGACCTAAACGCCAAGTACAAACATAAGSTGCTTCA 960
Db 1440 GCCTCTTGGACCTGATCTTGAAGACCTAAACGCCAAGTACAAACATAAGSTGCTTCA 1439
Qy 961 AGAAGATCTAGAAACAAAGCAAGTCAAGGTCATTTCTCTACCTACATGCTGGTGGTAGT 1020
Db 1500 AGAAGATCTAGAAACAAAGCAAGTCAAGGTCATTTCTCTACCTACATGCTGGTGGTAGT 1559
Qy 1021 TGATGAATCTAGTGGAGATCACCAACTGCTCTTTTGAAGAACAACTTAAAGTATTGGG 1080
Db 1560 TGAATGATCTAGTGGAGATCACCAACTGCTCTTTTGAAGAACAACTTAAAGTATTGGG 1619
Qy 1081 AGATCGATGGGCAACATCTGTAGATGGACAGAACCGCTGGGTCTTTTACAGAC-- 1138
Db 1620 AGATCGATGGGCAACATCTGTAGATGGACAGAACCGCTGGGTCTTTTACAGACAT 1679
Qy 1139 ----- 1138
Db 1680 CTTTCTCAATGGCAACGTCTTACTGAAGACAGTGCCTTTTATGTGCATGGCTTTCAGA 1739
Qy 1139 ----- 1138
Db 1740 ABAAGAGATGCAGTGAACAGATTACACAACTGGCTTTAAAGATCAAAATGAATGTT 1799
Qy 1139 ----- 1138
Db 1800 ATCAAGTCTTCAAAACTGGCGCTTTTAAAGGGGATCTAGAAAAGAAAAGCAATCCAT 1859
Qy 1139 ----- 1138
Db 1860 GGGCAAACTGTATTCACCTCAACAAAGATCTTCTTCAACACTGAAGAATTAAGTCAGTGAC 1919
Qy 1139 ----- 1138
Db 1920 CCAGAGACGGAAGCATGGCTGGATAACTTTGCCGGTGTGGGATATTTAGTCCAAAA 1979
Qy 1139 ----- 1138
Db 1980 ACTTGAAGAGAGTACAGACAGATCATAGATTACTGCAACAGTTGCCCTTGGACCTGA 2039
Qy 1177 AAGTTTCTTGCTGGCTTACAGAGCTGAACAACTGCAATGTCTCTACAGATGCTAC 1236
Db 2040 AAGTTTCTTGCTGGCTTACAGAGCTGAACAACTGCAATGTCTCTACAGATGCTAC 2099
Qy 1237 CCCTAAGGAAGGCTCTCTAGAGACTCCAAAGGAGTAAAGAGCTGTATGAACAATGGCA 1296
Db 2100 CCCTAAGGAAGGCTCTCTAGAGACTCCAAAGGAGTAAAGAGCTGTATGAACAATGGCA 2159
Qy 1297 AGACCTCCAGAGTGAATTAAGTACAGATGCTTATCAACCTGGATGAACACAG 1356
Db 2160 AGACCTCCAGAGTGAATTAAGTACAGATGCTTATCAACCTGGATGAACACAG 2219
Qy 1357 CCACAAATCCCTGAGATCCCTGGAGGTTCCGATGATGCGAGTCTCTTACAAAGAGCTTT 1416
Db 2220 CCACAAATCCCTGAGATCCCTGGAGGTTCCGATGATGCGAGTCTCTTACAAAGAGCTTT 2279
Qy 1417 GGATAACATCAACTTCAAGTGGAGTGAACCTTCGAAAAAGTCTCTCAACATTAAGTCCCA 1476
Db 2280 GGATACATGAACCTTCAAGTGGAGTGAACCTTCGAAAAAGTCTCTCAACATTAAGTCCCA 2339
Qy 1477 TTGGAAGCCAGTTCTGACCAAGTGAAGGCTCTGCACTTTCTGCAAGGAGTCTTGTGTT 1536
Db 2340 TTGGAAGCCAGTTCTGACCAAGTGAAGGCTCTGCACTTTCTGCAAGGAGTCTTGTGTT 2399
Qy 1537 GTGGCTACAGCTGAAGAATGATGAATTAAGCCGGGAGGCACTATTGAGGCGCACTTCC 1596
Db 2400 GTGGCTACAGCTGAAGAATGATGAATTAAGCCGGGAGGCACTATTGAGGCGCACTTCC 2459
Qy 1597 AGCAGTTCAAGAGCAAGCATGTACATAGGCGCTTCAAGAGGGGAATTTGAACATAAAGA 1656
Db 2460 AGCAGTTCAAGAGCAAGCATGTACATAGGCGCTTCAAGAGGGGAATTTGAACATAAAGA 2519

Qy 1657 ACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGACAGCCCTTTGA 1716
Db 2520 ACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGACAGCCCTTTGA 2579
Qy 1717 AGACTTAGAGAACTCTTACAGAGGCCAGAGAGTGCCTCTGAGGAGAGAGCCACAGAA 1776
Db 2580 AGACTTAGAGAACTCTTACAGAGGCCAGAGAGTGCCTCTGAGGAGAGAGCCACAGAA 2639
Qy 1777 TGTCACTCGGCTTCTACGAAGCAGGCTGAGAGTGCATTAATCTAGTGGGAAAAATTGAA 1836
Db 2640 TGTCACTCGGCTTCTACGAAGCAGGCTGAGAGTGCATTAATCTAGTGGGAAAAATTGAA 2699
Qy 1837 CTTGCACTCCGCTGACTGGCAGAGAAATAGATGAGACCTTGAAGACTTCCAGGAAT 1896
Db 2700 CTTGCACTCCGCTGACTGGCAGAGAAATAGATGAGACCTTGAAGACTTCCAGGAAT 2759
Qy 1897 TCAAGAGGCCAGGATGAGTGGACCTCAAGTGGGCCAAGCTGAGGTGATCAAGGATC 1956
Db 2760 TCAAGAGGCCAGGATGAGTGGACCTCAAGTGGGCCAAGCTGAGGTGATCAAGGATC 2819
Qy 1957 CTGGCAGCCCGTGGCGGATCTCTCAATGACTCTCTCCAAGATCACTCTCGAGAAAGTCAA 2016
Db 2820 CTGGCAGCCCGTGGCGGATCTCTCAATGACTCTCTCCAAGATCACTCTCGAGAAAGTCAA 2879
Qy 2017 GGCACCTTCAGAGAGAAATGGCCCTCTGAAAGAGACGTTGAGCCACGTTCAATGACCTTGC 2076
Db 2880 GGCACCTTCAGAGAGAAATGGCCCTCTGAAAGAGACGTTGAGCCACGTTCAATGACCTTGC 2939
Qy 2077 TCGCAGCTTACACTTTGGGCATTCAGCTCTCACCGTATACCTTCAGCACTCTCGAAGA 2136
Db 2940 TCGCAGCTTACACTTTGGGCATTCAGCTCTCACCGTATACCTTCAGCACTCTCGAAGA 2999
Qy 2137 CTTGAACACAGATGAAGATCTCTGAGGTGGCCCTGAGGAGCCAGTCAAGGAGCTGCA 2196
Db 3000 CTTGAACACAGATGAAGATCTCTGAGGTGGCCCTGAGGAGCCAGTCAAGGAGCTGCA 3059
Qy 2197 TGAAGCCACAGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCAGCTGTGTCCAGGG 2256
Db 3060 TGAAGCCACAGGACTTTGGTCCAGCATCTCAGCACTTTCTTCCAGCTGTGTCCAGGG 3119
Qy 2257 TCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCCTACTATATCAACACAGAGACTCA 2316
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Qy 2317 AACAACTTGTGGGACCATCCAAAATGACAGAGCTCTACAGCTTTTAGTGAGCTGCA 2376
Db 3180 AACAACTTGTGGGACCATCCAAAATGACAGAGCTCTACAGCTTTTAGTGAGCTGCA 3239
Qy 2377 TAATGTCAGATTCTCAGCTTTATAGGACTGGCATGAACCTCCGAAGCTGCAAGAGGCCCT 2436
Db 3240 TAATGTCAGATTCTCAGCTTTATAGGACTGGCATGAACCTCCGAAGCTGCAAGAGGCCCT 3299
Qy 2437 TTGCTTGGATCTCTGAGCTGTGAGCTGTGATGCTTTGGACACAGCAACACCTCAA 2496
Db 3300 TTGCTTGGATCTCTGAGCTGTGAGCTGTGATGCTTTGGACACAGCAACACCTCAA 3359
Qy 2497 GCAAAATGACAGCCCATGGATATCTCGAGATTAATTAATTTGTTGACCACTATTTAGA 2556
Db 3360 GCAAAATGACAGCCCATGGATATCTCGAGATTAATTAATTTGTTGACCACTATTTAGA 3419
Qy 2557 CCGCTGGAGAGAGGACACAAATTTGGTCAAGCTCCCTCTCTCGTGGATATGTCTCT 2616
Db 3420 CCGCTGGAGAGAGGACACAAATTTGGTCAAGCTCCCTCTCTCGTGGATATGTCTCT 3479
Qy 2617 GAATGCTCTCTGAATGTTTATGATACGGGACGAACAGAGGAGATCCGCTGTCTGCTTT 2676
Db 3480 GAATGCTCTCTGAATGTTTATGATACGGGACGAACAGAGGAGATCCGCTGTCTGCTTT 3539
Qy 2677 TAAACTGGCATCATTTCCCTGTGTAAAGCACATTTTGAAGACAAAGTACAGATACCTTTT 2736
Db 3540 TAAACTGGCATCATTTCCCTGTGTAAAGCACATTTTGAAGACAAAGTACAGATACCTTTT 3599

QY 2737 CAAGCAAGTGGCAAGTTCACAGAGATTTGTGACACAGCGAGGCTGGGCTCCTCTGCA 2796
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Db 3600 CAGCAGAGTGGCAGATTTCACAGAGATTTGTGACACAGCGAGGCTGGGCTCCTCTGCA 3659
QY 2797 TGATTCATCCAAATTCACAGACAGTTGGGTGAAGTTGCAATCCTTTGGGGGCGAGTAAACAT 2856
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Db 3660 TGATTCATCCAAATTCACAGACAGTTGGGTGAAGTTGCAATCCTTTGGGGGCGAGTAAACAT 3719
QY 2857 TGAGC 2861
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Db 3720 TGAGC 3724
|||||
RESULT 9
US-09-845-416-27
; Sequence 27, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatencIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 5149
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-27
Query Match 88.3%; Score 2527; DB 12; Length 5149;
Best Local Similarity 89.8%; Pred. No. 0;
Matches 2861; Conservative 0; Mismatches 0; Indels 324; Gaps 1;
QY 1 GCCAGACTATTGACTGGAATAGTGTGGTTGGCCAGCAGTCAGCCACACACGACTGGA 60
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QY 61 ACATGCATCAACATGCCAGATATCAATTAGGCATAGAGAACTACTCGATCTGGAAGA 120
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QY 181 AGTTTGTGCTCAACAAGTGGAGATTTGAAGCCATCCAGAGATGGAATGTTGCCAAGGCC 240
Db 1477 AGTTTGTGCTCAACAAGTGGAGATTTGAAGCCATCCAGAGATGGAATGTTGCCAAGGCC 1536
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QY 361 GAGCTATGCTTACACAGAGGCTGCTTATGTACACACCTCTGACCTTACAGGAGGCCATT 420
Db 1657 GAGCTATGCTTACACAGAGGCTGCTTATGTACACACCTCTGACCTTACAGGAGGCCATT 1716
QY 421 TCCCTTACAGANTTGAAGCTCCTGAAGACAGTCAATTTGGCAGTTCATTGANGGAGAG 480
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QY 481 TGAAGTAAACCTGACCGGTTATCAACAGCTTTTGAAGAAGTATTATCGTGGCTTCTTTC 540
Db 1777 TGAAGTAAACCTGACCGGTTATCAACAGCTTTTGAAGAAGTATTATCGTGGCTTCTTTC 1836

QY 541 TCCTGAGGACACATTCACAGCACAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 600
Db 1837 TCCTGAGGACACATTCACAGCACAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 1896
QY 601 CCAGTTTTCATCTCATGAGGGGTACATGATGGATTTGACAGCCCATCAGGGCCGGGTTGG 660
Db 1897 CCAGTTTTCATCTCATGAGGGGTACATGATGGATTTGACAGCCCATCAGGGCCGGGTTGG 1956
QY 661 TAATATTCTCAATTTGGGAAGTAAGCTGATTGGGAACAGGAAAATTTATCAGAAGATGAAGA 720
Db 1957 TAATATTCTCAATTTGGGAAGTAAGCTGATTGGGAACAGGAAAATTTATCAGAAGATGAAGA 2016
QY 721 AACTCAAGTACACAGCAGATGAATCTCTTAATTTCAAGATGGGAATGCTTCAGGGTAGC 780
Db 2017 AACTCAAGTACACAGCAGATGAATCTCTTAATTTCAAGATGGGAATGCTTCAGGGTAGC 2076
QY 781 TAGCATGGAACAAACAAAGCAATTTACATAGAGATTTTAAATGGATCTCCAGAAATCAGAAACT 840
Db 2077 TAGCATGGAACAAACAAAGCAATTTACATAGAGATTTTAAATGGATCTCCAGAAATCAGAAACT 2136
QY 841 GAAAGAGTTGAATGACTGCTTACAAAACAGAGAAGAAAGAAAGAAATCGAGGAAGA 900
Db 2137 GAAAGAGTTGAATGACTGCTTACAAAACAGAGAAGAAAGAAAGAAATCGAGGAAGA 2196
QY 901 GCCTCTGGACCTGATCTTGAAGACCTTAAACGCCAAGTACAAACATCAATAGTCTCTCA 960
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QY 961 AGAAGATCTAGAACACAGAACTCAGGGTCAATTTCTCCTCAGATCAGATGGTGGTGGTAGT 1020
Db 2257 AGAAGATCTAGAACACAGAACTCAGGGTCAATTTCTCCTCAGATCAGATGGTGGTGGTAGT 2316
QY 1021 TGATGAATCTAGTGGAGATCAGCAGTCTGCTTTGGGAAGAACAACTTAAGGTATTGGG 1080
Db 2317 TGATGAATCTAGTGGAGATCAGCAGTCTGCTTTGGGAAGAACAACTTAAGGTATTGGG 2376
QY 1081 AGATCGATGGCAACATCTGTAGATGGACAGAGAGCCGCTGGGTTCTTTTACAAGAC-- 1138
Db 2377 AGATCGATGGCAACATCTGTAGATGGACAGAGAGCCGCTGGGTTCTTTTACAAGACAT 2436
QY 1139 ----- 1138
Db 2437 CCTTCTCAATGGCAAGTCTTACTGAAGAACAGTGCCTTTTATAGTGCATGCTTTCAGA 2496
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QY 1139 ----- 1138
Db 2557 ATCAAGTCTTCAAAAACCTGGCCGTTTTTAAAGCGGATCTAGAAAAGAAAAGCAATCCAT 2616
QY 1139 ----- 1138
Db 2617 GGGCAAACTGTATTCACTCAAAACAGATCTCTTTCAACACACTGAAGAATAAGTCAGTCAAC 2676
QY 1139 ----- 1138
Db 2677 CCAGAAGAGGAGACATPGCTGGTAATCTTTGCCCGGTGTTGGGTAATTTTATGTCCTCAAAA 2736
QY 1139 -----ACTCATAGATTACTGCAACAGTTCCTCCCTGGAGCTGGA 1176
Db 2737 ACTTGAAGAGATACACACAGCTACTAGATTACTGCACAGTTCCTCCCTGGAGCTGGA 2796
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QY 1237 CCGTGAAGAAAGGCTCTCTAGAGACTCCAGAGGAGTAAAGAGCTGATGAACATGCGCA 1296
Db 2857 CCGTGAAGAAAGGCTCTCTAGAGACTCCAGAGGAGTAAAGAGCTGATGAACATGCGCA 2916

QY 1297 AGACCTCCAGGCTGAATGAGCTCACAGATGTTTATCACAACTGCGATGAACAG 1356
DB 2917 AGACCTCCAGGCTGAATGAGCTCACAGATGTTTATCACAACTGCGATGAACAG 2976
QY 1357 CCAAAAATCCCTGAGATCCCTGGAGGTTCCGATGATGAGTCCCTGTTACAAAGAGCTTT 1416
DB 2977 CCAAAAATCCCTGAGATCCCTGGAGGTTCCGATGATGAGTCCCTGTTACAAAGAGCTTT 3036
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DB 3037 GGTAAATGAATCTCAAGTGGAGTGAATCGGAAAGTCTCTCAACATTAAGTCCCA 3096
QY 1477 TTTGGAGAGCAGTCTGACAGTGGAGGCTGCGACCTTCTCTGAGGAGCTTCTGCT 1536
DB 3097 TTTGGAGAGCAGTCTGACAGTGGAGGCTGCGACCTTCTCTGAGGAGCTTCTGCT 3156
QY 1537 GTGGCTACAGCTGAAAGATGATGAATTAAGCGGAGGCACTTATGGAGGCACTTCC 1596
DB 3157 GTGGCTACAGCTGAAAGATGATGAATTAAGCGGAGGCACTTATGGAGGCACTTCC 3216
QY 1597 AGCAGTTCAAGAGCAGAGATGATACATAGGCGCTTCAAGAGGGAATGAAAATGAAGA 1656
DB 3217 AGCAGTTCAAGAGCAGAGATGATACATAGGCGCTTCAAGAGGGAATGAAAATGAAGA 3276
QY 1657 ACCTGTAATCATGAGTACTCTGAGACTGTACGAATATTTCTGACAGAGCAGCTTTGGA 1716
DB 3277 ACCTGTAATCATGAGTACTCTGAGACTGTACGAATATTTCTGACAGAGCAGCTTTGGA 3336
QY 1717 AGGACTAGAGAACTCTACAGGAGCCAGAGAGCTGCGCTCTGAGGAGAGAGCCAGAA 1776
DB 3337 AGGACTAGAGAACTCTACAGGAGCCAGAGAGCTGCGCTCTGAGGAGAGAGCCAGAA 3396
QY 1777 TGTCACTCGGCTTACAGAAAGAGGCTGAGAGGTCATATCTGAGTGGGGAATTTGAA 1836
DB 3397 TGTCACTCGGCTTACAGAAAGAGGCTGAGAGGTCATATCTGAGTGGGGAATTTGAA 3456
QY 1837 CCTGCACTCGGCTGAGAGAGAAATAGATGAGAGCCCTGTAAGAGCTCCAGAGACT 1896
DB 3457 CCTGCACTCGGCTGAGAGAGAAATAGATGAGAGCCCTGTAAGAGCTCCAGAGACT 3516
QY 1897 TCAAGAGGCGGAGTGAAGCTCAAGCTGCGCCAGCTGAGGTGATCAAGGATC 1956
DB 3517 TCAAGAGGCGGAGTGAAGCTCAAGCTGCGCCAGCTGAGGTGATCAAGGATC 3576
QY 1957 GTGCGAGCCGCTGGGAGATCTCTCATTTGACTCTCTCCAAGATCACTCGAGAAAGTCAA 2016
DB 3577 GTGCGAGCCGCTGGGAGATCTCTCATTTGACTCTCTCCAAGATCACTCGAGAAAGTCAA 3636
QY 2017 GGCATCTGAGAGGAATTTGCGCTCTGAAAGAGAGCTGAGCCAGCTCAATGACCTTGC 2076
DB 3637 GGCATCTGAGAGGAATTTGCGCTCTGAAAGAGAGCTGAGCCAGCTCAATGACCTTGC 3696
QY 2077 TCGCCAGCTTTACACCTTTGGGCAATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGA 2136
DB 3697 TCGCCAGCTTTACACCTTTGGGCAATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGA 3756
QY 2137 CCGTGAACACAGATGAGAGCTCTGCGAGGTCGAGGTCGAGGTCGAGGTCGAGGTCGAG 2196
DB 3757 CCGTGAACACAGATGAGAGCTCTGCGAGGTCGAGGTCGAGGTCGAGGTCGAGGTCGAG 3816
QY 2197 TGAAGCCACAGGAGCTTTGGTCCAGCATCTCAGCACTTTCTTTCCAGCTCTGTCACAGG 2256
DB 3817 TGAAGCCACAGGAGCTTTGGTCCAGCATCTCAGCACTTTCTTTCCAGCTCTGTCACAGG 3876
QY 2257 TCCCTGGGAGAGAGCCTCTCGCCAAACAAAGTCCCTACTATATCAACCCAGCAGACTCA 2316
DB 3877 TCCCTGGGAGAGAGCCTCTCGCCAAACAAAGTCCCTACTATATCAACCCAGCAGACTCA 3936
QY 2317 AACAACTTGTGGGAGCCTCCCAAAATGACAGAGCTCTACCAAGTCTTTAGTGTGACCTGAA 2376
DB 3937 AACAACTTGTGGGAGCCTCCCAAAATGACAGAGCTCTACCAAGTCTTTAGTGTGACCTGAA 3996
QY 2377 TAATGTCAGATTTCTAGCTTTATAGGACTGCCATGAACCTCCGAGACTCCAGAGGCGCT 2436

DB 3997 TAAATGACAGATCTCAGCTTAAAGACTGCCATGAATAATCCAGAGACTGCGAGAGCGCT 4056
QY 2437 TTGCTTGGATCTCTTGAAGCTGTGAGCTGATGATGATGATGATGATGATGATGATGATGAT 2496
DB 4057 TTGCTTGGATCTCTTGAAGCTGTGAGCTGATGATGATGATGATGATGATGATGATGATGAT 4116
QY 2497 GCAAAATGACAGCCCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2556
DB 4117 GCAAAATGACAGCCCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 4176
QY 2557 CCCTCTGGAGCAGAGCAGACAAATTTGGTCAAGTCCCTCTCTGCGTGGATATGATGATGAT 2616
DB 4177 CCCTCTGGAGCAGAGCAGACAAATTTGGTCAAGTCCCTCTCTGCGTGGATATGATGATGAT 4236
QY 2617 GAACTGGCTGCTGAATGTTTATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2676
DB 4237 GAACTGGCTGCTGAATGTTTATGATGATGATGATGATGATGATGATGATGATGATGATGAT 4296
QY 2677 TAAACTGGCATCAATTCCTCTGTTAAAGCAGATTTGTGACAGCGAGCTGGGCTCTCTTCTGCA 2736
DB 4297 TAAACTGGCATCAATTCCTCTGTTAAAGCAGATTTGTGACAGCGAGCTGGGCTCTCTTCTGCA 4356
QY 2737 CAAGCAAGTGGCAAGTTCACAGGATTTGTGACAGCGAGCTGGGCTCTCTTCTGCA 2796
DB 4357 CAAGCAAGTGGCAAGTTCACAGGATTTGTGACAGCGAGCTGGGCTCTCTTCTGCA 4416
QY 2797 TGATTTCTTCCAAATTCACAGAGTGGGTGAAGTTGATCTCTTTGGGGGCGAGTACAT 2856
DB 4417 TGATTTCTTCCAAATTCACAGAGTGGGTGAAGTTGATCTCTTTGGGGGCGAGTACAT 4476
QY 2857 TGAGC 2861
DB 4477 TGAGC 4481

RESULT 10
US-09-845-416-10
; Sequence 10, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 3531
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-10

Query Match 76.8%; Score 2197; DB 12; Length 3531;
Best Local Similarity 88.6%; Pred. No. 0;
Matches 2534; Conservative 0; Mismatches 0; Indels 327; Gaps 1;

QY 1 GCCAGACCTATTGACTGGATAGTGTGTTGCCAGCAGTCAGCCACACACGACTGGA 60
DB 540 GCCAGACCTATTGACTGGATAGTGTGTTGCCAGCAGTCAGCCACACGACTGGA 599
QY 61 ACATGCACTTCAACATCCAGATATCAATATAGGATAGAGAACTACTCGATCTCTGAAGA 120
DB 600 ACATGCACTTCAACATCCAGATATCAATATAGGATAGAGAACTACTCGATCTCTGAAGA 659
QY 121 TGTGTATACCACTATCCAGATAGAAGTCCATCTTAATGTACATCACTCACTCTTCCA 180
DB 660 TGTGTATACCACTATCCAGATAGAAGTCCATCTTAATGTACATCACTCACTCTTCCA 719

Db	1477	AGTTTGGCTCAACAAGTGAACATTTGAAGCCATCGAGGAAGTGAATATGTTCGCAAGGCC	1536
QY	241	ACCTAAAGTGACTAAAGAAGAACATTTTCAGTTTACATCATCAATGCATCTATTTCACAACA	300
Db	1537	ACCTAAAGTGACTAAAGAAGAACATTTTCAGTTTACATCATCAATGCATCTATTTCACAACA	1596
QY	301	GATCAGGTCAGTCTAGCACACAGGGAATAGAGAACTTCTCCCTAAAGCCTCGATTCAA	360
Db	1597	GATCAGGTCAGTCTAGCACACAGGGAATAGAGAACTTCTCCCTAAAGCCTCGATTCAA	1656
QY	361	GAGCTATGCTACACACAGGCTGCTTATGTCACACACCTCTGACCTTACAGCGAGGCCAT	420
Db	1657	GAGCTATGCTACACACAGGCTGCTTATGTCACACACCTCTGACCTTACAGCGAGGCCAT	1716
QY	421	TCCTTCACAGCATTTGGAAGCTCCTGAAGACAAGTCATTTGGCAGTTTCATTGATGGAGAG	480
Db	1717	TCCTTCACAGCATTTGGAAGCTCCTGAAGACAAGTCATTTGGCAGTTTCATTGATGGAGAG	1776
QY	481	TGAAGTAACTGGACCGTTTATCAACACAGCTTTAGAAAGATATATCGTGGCTTCCTTC	540
Db	1777	TGAAGTAACTGGACCGTTTATCAACACAGCTTTAGAAAGATATATCGTGGCTTCCTTC	1836
QY	541	TGCTGAGGACATTCGAAGCACACAGGAGAGATTTCTAATGATGGAAGTGGTGAAGA	600
Db	1837	TGCTGAGGACATTCGAAGCACACAGGAGAGATTTCTAATGATGGAAGTGGTGAAGA	1896
QY	601	CCAGTTTCATCATGAGGGTACATGATGATTTGACAGCCCATCAGGCGCGGGTTGG	660
Db	1897	CCAGTTTCATCATGAGGGTACATGATGATTTGACAGCCCATCAGGCGCGGGTTGG	1956
QY	661	TAATATTCTCAATTTGGGAAGTAAAGCTGATGGACACAGGAAATATCAGAAGATGAAGA	720
Db	1957	TAATATTCTCAATTTGGGAAGTAAAGCTGATGGACACAGGAAATATCAGAAGATGAAGA	2016
QY	721	AACGTAAGTACAGAGCAGATGAATCTCCATAATTCAAGATGGGAATGCCCTCAGGGTAGC	780
Db	2017	AACGTAAGTACAGAGCAGATGAATCTCCATAATTCAAGATGGGAATGCCCTCAGGGTAGC	2076
QY	781	TAGCATGGAACAAACAAATTTACATAGAGTTTAAATGGATCTCCAGAATCAGAAACT	840
Db	2077	TAGCATGGAACAAACAAATTTACATAGAGTTTAAATGGATCTCCAGAATCAGAAACT	2107
QY	841	GAAGAGTTGAATGACTGGCTTAACAAACACAGAGAAACACAGGAAATGGAGGAAGA	900
Db	2108	GAAGAGTTGAATGACTGGCTTAACAAACACAGAGAAACACAGGAAATGGAGGAAGA	2107
QY	901	SCCTTTGGACCTGATCTTTGAAGACCTTAAAGCCAGTACACAACTAAGTGTCTTCA	960
Db	2108	SCCTTTGGACCTGATCTTTGAAGACCTTAAAGCCAGTACACAACTAAGTGTCTTCA	2107
QY	961	AGAGATCTAGTGGAGATCAGCAACTGCTGTTTGGNAGAACAACTTAAGTATTGGG	1020
Db	2108	AGAGATCTAGTGGAGATCAGCAACTGCTGTTTGGNAGAACAACTTAAGTATTGGG	2107
QY	1021	TGATGAATCTAGTGGAGATCAGCAACTGCTGTTTGGNAGAACAACTTAAGTATTGGG	1080
Db	2108	TGATGAATCTAGTGGAGATCAGCAACTGCTGTTTGGNAGAACAACTTAAGTATTGGG	2107
QY	1081	AGATCGATGGGCAACATCTGTAGATGGACAGAGACCGCTGGGTCTTTTACAGAACAC	1140
Db	2108	AGATCGATGGGCAACATCTGTAGATGGACAGAGACCGCTGGGTCTTTTACAGAACAC	2109
QY	1141	TCATAGATTACTGAACAGTATCCCTTGGACCTGGGAAGTCTTCTGCTGGCTTACAGA	1200
Db	2110	TCATAGATTACTGAACAGTATCCCTTGGACCTGGGAAGTCTTCTGCTGGCTTACAGA	2169
QY	1201	AGCTGAACAACTGCCAATTCCTTACAGGATGCTACCGTAAAGAAAGCTCTCTAGAAGA	1260
Db	2170	AGCTGAACAACTGCCAATTCCTTACAGGATGCTACCGTAAAGAAAGCTCTCTAGAAGA	2229
QY	1261	CTCCAAAGGGAGTAAAGAGCTGATGAACAAATGGCAGACCTCCAAGGTGAATTTGAAGC	1320

Db 2230 CTCACAGGAGTAAAGAGCTGATGAACAANTGCCAAGACCTCCCAAGTGAATTTGAAGC 2289
QY 1321 TCACACAGATGTTTATCACAACCTGGATGAAGAACGCCAAATAATCCTGAGATCCCTGGA 1380
Db 2290 TCACACAGATGTTTATCACAACCTGGATGAAGAACGCCAAATAATCCTGAGATCCCTGGA 2349
QY 1381 AGTTTCGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1440
Db 2350 AGTTTCGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2409
QY 1441 TGAATTCGGAAGAAAGTCTCTCAACATTAAGTCCATTTGGAAGCAGTCTTGACCAAGT 1500
Db 2410 TGAATTCGGAAGAAAGTCTCTCAACATTAAGTCCATTTGGAAGCAGTCTTGACCAAGT 2469
QY 1501 GAAGGCTCTGACACCTTTCTGCGAGAACTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1560
Db 2470 GAAGGCTCTGACACCTTTCTGCGAGAACTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2529
QY 1561 ATTAAGCCGCGAGCAGCCTATTGAGGCGGACTTTCCAGCAGTTCAGAGCAAGCAGATGT 1620
Db 2530 ATTAAGCCGCGAGCAGCCTATTGAGGCGGACTTTCCAGCAGTTCAGAGCAAGCAGATGT 2589
QY 1621 ACATAGGCGCTTCAAGAGGAATTAAGAACTTAAGAACTTGAATCATGAGTACTCTTGA 1680
Db 2590 ACATAGGCGCTTCAAGAGGAATTAAGAACTTAAGAACTTGAATCATGAGTACTCTTGA 2649
QY 1681 GACTGTACGAATATTCTGACAGAGCAGCCTTTGGAAGGACTAGAGAACTCTACAGGA 1740
Db 2650 GACTGTACGAATATTCTGACAGAGCAGCCTTTGGAAGGACTAGAGAACTCTACAGGA 2709
QY 1741 GCCCAGAGAGTGCCTCTGAGAGAGAGCCCGGAGTGTCACTTCGCGTTCACGAAAGCA 1800
Db 2710 GCCCAGAGAGTGCCTCTGAGAGAGAGCCCGGAGTGTCACTTCGCGTTCACGAAAGCA 2769
QY 1801 GCTCAGAGAGTCAATCTAGTGGAGAAATTTGAACCTGCCTCGCTGAGTGGCAGAG 1860
Db 2770 GCTCAGAGAGTCAATCTAGTGGAGAAATTTGAACCTGCCTCGCTGAGTGGCAGAG 2829
QY 1861 AAAATAGATGAGACCTTGAAGACTCCAGGAACTTCAAGAGCCAGCAGTATGAGCTGGA 1920
Db 2830 AAAATAGATGAGACCTTGAAGACTCCAGGAACTTCAAGAGCCAGCAGTATGAGCTGGA 2889
QY 1921 CTTCAAGTGGCCAGCTGAGTGTCAAGGATTCCTGGCAGCCCGTGGGCGATCTCT 1980
Db 2890 CTTCAAGTGGCCAGCTGAGTGTCAAGGATTCCTGGCAGCCCGTGGGCGATCTCT 2949
QY 1981 CATGACTCTCTCCAGATCACTCGAGAACTCAAGGACTTCAAGGAGAAATTTGGGCC 2040
Db 2950 CATGACTCTCTCCAGATCACTCGAGAACTCAAGGACTTCAAGGAGAAATTTGGGCC 3009
QY 2041 TCTGAAGAGAGCTGAGCCAGCTCAATGACCTTCTGCGCAGCTTACCACTTTGGGCGAT 2100
Db 3010 TCTGAAGAGAGCTGAGCCAGCTCAATGACCTTCTGCGCAGCTTACCACTTTGGGCGAT 3069
QY 2101 TCAGCTCTACCGTATACCTCAGCAGCTTGAAGAGCTTGAAGAGCTTGAAGAGCTTGAAGAGCTTCT 2160
Db 3070 TCAGCTCTACCGTATACCTCAGCAGCTTGAAGAGCTTGAAGAGCTTGAAGAGCTTGAAGAGCTTCT 3129
QY 2161 GCAGTGGCGCTGAGGAGCAGCTCAGGAGCTGATGAAGCCAGCAGGACTTTGGTCC 2220
Db 3130 GCAGTGGCGCTGAGGAGCAGCTCAGGAGCTGATGAAGCCAGCAGGACTTTGGTCC 3189
QY 2221 AGCATCTCAGACCTTTCTTTCAGCTCTCTCAGGCTCTCAGGAGAGCAGCTCTGCC 2280
Db 3190 AGCATCTCAGACCTTTCTTTCAGCTCTCTCAGGCTCTCAGGAGAGCAGCTCTGCC 3249
QY 2281 AAACAAGTGGCTTACTATATCAACACAGAGACTCAACAACCTTGTGTGGAGCCATCCCAA 2340
Db 3250 AAACAAGTGGCTTACTATATCAACACAGAGACTCAACAACCTTGTGTGGAGCCATCCCAA 3309
QY 2341 AATGACAGAGCTTACCAAGCTTTTGTAGCTGACCTGATTAATCATGATTTCTCAGCTTATAG 2400
Db 3310 AATGACAGAGCTTACCAAGCTTTTGTAGCTGACCTGATTAATCATGATTTCTCAGCTTATAG 3369

QY 2401 GACTGGCATGAACCTCCGAAAGCTGCAAGAGCCCTTTGCTTGGATCTCTTGAGCCTGTC 2460
Db 3370 GACTGGCATGAACCTCCGAAAGCTGCAAGAGCCCTTTGCTTGGATCTCTTGAGCCTGTC 3429
QY 2461 AGCTGCATGTGATGCTTGGACCAAGCAACCTTCAAGCAAAATGACCAAGCCCATGGATAT 2520
Db 3430 AGCTGCATGTGATGCTTGGACCAAGCAACCTTCAAGCAAAATGACCAAGCCCATGGATAT 3489
QY 2521 CTTGACAGATTAATTAATGTTGACCACTATTTAAGCCCTTGGAGCAGAGCAGCAACAA 2580
Db 3490 CTTGACAGATTAATTAATGTTGACCACTATTTAAGCCCTTGGAGCAGAGCAGCAACAA 3549
QY 2581 TTTGCTCAACCTCCCTCTGCTGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2640
Db 3550 TTTGCTCAACCTCCCTCTGCTGCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3609
QY 2641 TACGGGAGCAAGAGGAGGATCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2700
Db 3610 TACGGGAGCAAGAGGAGGATCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3669
QY 2701 TAAAGCAGATTTGGAAGCAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGG 2760
Db 3670 TAAAGCAGATTTGGAAGCAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGG 3729
QY 2761 ATTTTGTGACCAAGCAGGCTGGGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2820
Db 3730 ATTTTGTGACCAAGCAGGCTGGGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3789
QY 2821 GTTGGGTGAAGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2861
Db 3790 GTTGGGTGAAGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3830

RESULT 12

US-09-845-416-12
; Sequence 12, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 3510
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-12

Query Match 75.38; Score 2155; DB 12; Length 3510;

Best Local Similarity 87.88; Pred. No. 0;

Matches 2513; Conservative 0; Mismatches 0; Indels 348; Gaps 1;

QY 1 GCCAGACCTATTGACTGGAATAGTGTGTTGGCAGCAGTCCAGCAGCAGCAGCAGCAGCAGCAGCAG 60
Db 540 GCCAGACCTATTGACTGGAATAGTGTGTTGGCAGCAGTCCAGCAGCAGCAGCAGCAGCAGCAGCAG 599
QY 61 ACATGCTCAACATCGCCAGATATCAATTAAGGATAGAGAACTTCTGATCTCTGATCTCTGATCTCT 120
Db 600 ACATGCTCAACATCGCCAGATATCAATTAAGGATAGAGAACTTCTGATCTCTGATCTCTGATCTCT 659
QY 121 TGTGATACCACTTCCAGATTAAGAGTCCATCTTAATGATACATCATCATCTCTTCCA 180
Db 660 TGTGATACCACTTCCAGATTAAGAGTCCATCTTAATGATACATCATCATCTCTTCCA 719
QY 181 AGTTTGTGCTCAACAAGTGAAGCATTGAAGCATTCCAGCAGTGGAAATGTTGCCAAGGCC 240

QY 1321 TCACACAGATGTTTATCACAACTCGATGAAACAGACGCAAAATCTCGATCCCTGGA 1380
Db 2433 ----- 2432
QY 1381 AGSTCCGATGATGACGCTCTGTACAAAGACGTTTGGANAACATGAATCAAGTGAG 1440
Db 2433 ----- 2432
QY 1441 TGAATCTGGAAAAAGTCTCTCAACATTAAGTCCCATTTGGAGCCAGTCTGACCACTG 1500
Db 2433 -----CAGTCTGACCACTG 2447
QY 1501 GAAGCGCTGCACCTTCTCTGCAGCAACTCTGTGTGCTACACCTGAAAGATGATGA 1560
Db 2448 GAAGCGCTGCACCTTCTCTGCAGCAACTCTGTGTGCTACACCTGAAAGATGATGA 2507
QY 1561 ATTAAGCCGGCAGCAGCACTATTGGAGCGACCTTTCAGCAGTTCAGAAAGCAAGATGT 1620
Db 2508 ATTAAGCCGGCAGCAGCACTATTGGAGCGACCTTTCAGCAGTTCAGAAAGCAAGATGT 2567
QY 1621 ACATAGGCGCTTCAGAGGGAATTAAGAACTAAAGAACTCTATATGATGACTCTTGA 1680
Db 2568 ACATAGGCGCTTCAGAGGGAATTAAGAACTAAAGAACTCTATATGATGACTCTTGA 2627
QY 1681 GACTGTACGAATATTCTGCAGACAGCAGCTTTTGAAGGACTAGAGAACTCTACAGGA 1740
Db 2628 GACTGTACGAATATTCTGCAGACAGCAGCTTTTGAAGGACTAGAGAACTCTACAGGA 2687
QY 1741 GCCAGAGAGTGCCTCCTCAGGAGAGAGCCAGAAATGTCACTGGCTCTTACGAAAGCA 1800
Db 2688 GCCAGAGAGTGCCTCCTCAGGAGAGAGCCAGAAATGTCACTGGCTCTTACGAAAGCA 2747
QY 1801 GCTGAGAGGTCAATACTGACTGCGGAAAAATTAAGCTGCCTCGCTGACTGCGCAG 1860
Db 2748 GCTGAGAGGTCAATACTGACTGCGGAAAAATTAAGCTGCCTCGCTGACTGCGCAG 2807
QY 1861 AAAATAGATGAGACCTTGAAGACTCCAGGAACCTCAAGAGCCACAGGATGAGCTGGA 1920
Db 2808 AAAATAGATGAGACCTTGAAGACTCCAGGAACCTCAAGAGCCACAGGATGAGCTGGA 2867
QY 1921 CTTCAAGTGCAGCACTGAGTGATCAAGGATCTTGGCAGCCCGTGGGCGATCTCT 1980
Db 2868 CTTCAAGTGCAGCACTGAGTGATCAAGGATCTTGGCAGCCCGTGGGCGATCTCT 2927
QY 1981 CATTGACTCTTCCAAAGTCACTCCAGAACTCAAGCAGCTTCGAGGAGAAATTCGCGC 2040
Db 2928 CATTGACTCTTCCAAAGTCACTCCAGAACTCAAGCAGCTTCGAGGAGAAATTCGCGC 2987
QY 2041 TCTGAAAGAGACGTGAGCCACGTCAATGACCTTCTCGCCAGCTTACCACCTTTGGGCA 2100
Db 2988 TCTGAAAGAGACGTGAGCCACGTCAATGACCTTCTCGCCAGCTTACCACCTTTGGGCA 3047
QY 2101 TCAGCTCTCACCGTATACCTAGCAGCTCTGGAAGACCTGAACACAGATGGAAGTCT 2160
Db 3048 TCAGCTCTCACCGTATACCTAGCAGCTCTGGAAGACCTGAACACAGATGGAAGTCT 3107
QY 2161 GCAGTGGCGCTGAGAGACCGAGTCAGGAGCTGATGAAGCCACAGAGCTTTGGGCC 2220
Db 3108 GCAGTGGCGCTGAGAGACCGAGTCAGGAGCTGATGAAGCCACAGAGCTTTGGGCC 3167
QY 2221 AGCATCTCAGCACTTTCTTCCACGCTCTGTCAGGCTCCCTGGGAGAGAGCCATCTGCGC 2280
Db 3168 AGCATCTCAGCACTTTCTTCCACGCTCTGTCAGGCTCCCTGGGAGAGAGCCATCTGCGC 3227
QY 2281 AACAAGTGGCCCTACTATATCAACACCGAGACTCAAAACAACTTGTGGGAGCCATCCCAA 2340
Db 3228 AACAAGTGGCCCTACTATATCAACACCGAGACTCAAAACAACTTGTGGGAGCCATCCCAA 3287
QY 2341 AATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATATGATGATCTCTACGCTTATAG 2400
Db 3288 AATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATATGATGATCTCTACGCTTATAG 3347
QY 2401 GACTGCCATGAATCCGGAAGACTGCGAGAGGCCCTTTTGGTGGATCTCTTGAGCCTCTC 2460

Db 3348 GACTGCCATGAATCCGAAAGACTCGAAAGCCCTTTGCTGGATCTCTTGAGCCTGTC 3407
QY 2461 AGCTCAGTGTGATGCTTGGACCAACACCTCAAGCAAAATGACAGCCCATGATAT 2520
Db 3408 AGCTCAGTGTGATGCTTGGACCAACACCTCAAGCAAAATGACAGCCCATGATAT 3467
QY 2521 CTTGAGATTTAATTTGTTGACCACTATTATGACCGCTTGAGCAGCAAGCAACAA 2580
Db 3468 CTTGAGATTTAATTTGTTGACCACTATTATGACCGCTTGAGCAGCAAGCAACAA 3527
QY 2581 TTTGTCACACTCCCTCTCTGCGTGTATGTCGTGAACCTGCTGCTGAATGTTTATGA 2640
Db 3528 TTTGTCACACTCCCTCTCTGCGTGTATGTCGTGAACCTGCTGCTGAATGTTTATGA 3587
QY 2641 TACGGAGCAACAGGAGGAGTCCGCTGCTCTCTTTTAAACTGGCATCATTTCCCTGTG 2700
Db 3588 TACGGAGCAACAGGAGGAGTCCGCTGCTCTCTTTTAAACTGGCATCATTTCCCTGTG 3647
QY 2701 TAAAGCAATTTGGAAGCAAGTACAGATACCTTTTCAAGCAAGTGGCAGTTCACAGG 2760
Db 3648 TAAAGCAATTTGGAAGCAAGTACAGATACCTTTTCAAGCAAGTGGCAGTTCACAGG 3707
QY 2761 ATTTGTGACAGCAGCGAGGCTGGGCTCTCTGATGATTTCTCAAAATTCACAGACA 2820
Db 3708 ATTTGTGACAGCAGCGAGGCTGGGCTCTCTGATGATTTCTCAAAATTCACAGACA 3767
QY 2821 GTTGGTGAAAGTTCATCTTTGGGGGAGTAACTTACG 2861
Db 3768 GTTGGTGAAAGTTCATCTTTGGGGGAGTAACTTACG 3808

RESULT 14
US-09-845-416-1
; Sequence 1, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 11058
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-1

Query Match 60.7%; Score 1735.6; DB 12; Length 11058;
Best Local Similarity 98.6%; Pred. No. 0;
Matches 1750; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

QY 1088 TGGGCAACATCTGTAGATGACAGAGACCCCTGGTCTTTTACAGACTCATAGA 1147
Db 8008 TGGAGAACATTCATAAAGGGTGAGTGAGCGAGAGGCTGCTTTGGAAGAAACTCATAGA 8067
QY 1148 TTAGTGCACAGTTCCTCCCTGGACCTGGAAAGTTCCTTGCCTGGCTTACAGAGCTGAA 1207
Db 8068 TTAGTGCACAGTTCCTCCCTGGACCTGGAAAGTTCCTTGCCTGGCTTACAGAGCTGAA 8127
QY 1208 ACAACTGCCAATGCTTACAGGATGCTACCGTAAGGAAGGCTCTAGAGACTCCAG 1267
Db 8128 ACACCTGCCAATGCTTACAGGATGCTACCGTAAGGAAGGCTCTAGAGACTCCAG 8187
QY 1268 GGAGTAAAGAGCTGATGAACAAATGCGAAGACCTCCCAAGTGAATTAAGCTCAGACA 1327
Db 8188 GGAGTAAAGAGCTGATGAACAAATGCGAAGACCTCCCAAGTGAATTAAGCTCAGACA 8247

Db 8396 GGAGTAAAGAGCTGATGTAACAAATGGCAAGACCTCCAAAGTGAAATTAAGAGCTCACACA 8455
QY 1328 GATGTTTATCAACACCTGGATGAACACGCAAAAAATCTGAGATCCCTGGAGAGTTCC 1387
Db 8456 GAIGTTTATCAACACCTGGATGAACACGCAAAAAATCTGAGATCCCTGGAGAGTTCC 8515
QY 1388 GATGATGAGTCCCTGTTTACAAAGACGCTTTGGATACATGAACATTCAGTGGAGTGAACCT 1447
Db 8516 GATGATGAGTCCCTGTTTACAAAGACGCTTTGGATACATGAACATTCAGTGGAGTGAACCT 8575
QY 1448 CGAAAAAGTCTCTCAACATAGTCCCATTTGGAGCCAGTCTCTGACAGATGGAGCGT 1507
Db 8576 CGAAAAAGTCTCTCAACATAGTCCCATTTGGAGCCAGTCTCTGACAGATGGAGCGT 8635
QY 1508 CTGCACTTCTCTGCAAGAACCTCTGAGTGGCTACAGCTGAAGATGATGAATTAAGC 1567
Db 8636 CTGCACTTCTCTGCAAGAACCTCTGAGTGGCTACAGCTGAAGATGATGAATTAAGC 8695
QY 1568 CGGCAAGGACCTATTGGAGGCGACTTTCAGCAGTTCAGAAAGCAGACAGATGTACATAGG 1627
Db 8696 CGGCAAGGACCTATTGGAGGCGACTTTCAGCAGTTCAGAAAGCAGACAGATGTACATAGG 8755
QY 1628 GCGTTCAAGAGGGAATTAAGACTAAAGAACCTGTAAATCATGAGTACTCTTGAGACTGTA 1687
Db 8756 GCGTTCAAGAGGGAATTAAGACTAAAGAACCTGTAAATCATGAGTACTCTTGAGACTGTA 8815
QY 1688 CGAATATTCTCAGAGGACGCTTTGGAGGACTTAGAGAACTTACAGAGGCCGAGA 1747
Db 8816 CGAATATTCTCAGAGGACGCTTTGGAGGACTTAGAGAACTTACAGAGGCCGAGA 8875
QY 1748 GAGCTGCTCTCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCTACGAAGCAGGCTGAG 1807
Db 8876 GAGCTGCTCTCTGAGGAGAGAGCCAGAAATGTCACTCGGCTTCTACGAAGCAGGCTGAG 8935
QY 1808 GAGGTCAATAGTGGGAAAAATGAACCTGCACTCCGCTGACTGGCAGAGAAAAATA 1867
Db 8936 GAGGTCAATAGTGGGAAAAATGAACCTGCACTCCGCTGACTGGCAGAGAAAAATA 8995
QY 1868 GATGAGACCTTGAAGACTCCAGGAACCTCAGAGGCCAGGATGAGCTGAGACCTCAAG 1927
Db 8996 GATGAGACCTTGAAGACTCCAGGAACCTCAGAGGCCAGGATGAGCTGAGACCTCAAG 9055
QY 1928 CTGCGCCAGCTGAGGTGATCAAGGGATCCTGGCAGCCGCTGGGCGATCTCTCATTTGAC 1987
Db 9056 CTGCGCCAGCTGAGGTGATCAAGGGATCCTGGCAGCCGCTGGGCGATCTCTCATTTGAC 9115
QY 1988 TCTCTCCAAGATCACTCGAGAAAGTCAAGGCACCTTCGAGGAGAAATTCGCGCTCTGAAA 2047
Db 9116 TCTCTCCAAGATCACTCGAGAAAGTCAAGGCACCTTCGAGGAGAAATTCGCGCTCTGAAA 9175
QY 2048 GAGACGCTGAGCCAGCTCAATGACCTTCTCGCCAGCTTACCACTTTGGGCATTCAGCTC 2107
Db 9176 GAGACGCTGAGCCAGCTCAATGACCTTCTCGCCAGCTTACCACTTTGGGCATTCAGCTC 9235
QY 2108 TCACGCTATACTCAGCACTCTGGAAGACCTGAACACACAGATGGAAGCTTCTGCAAGTG 2167
Db 9236 TCACGCTATACTCAGCACTCTGGAAGACCTGAACACACAGATGGAAGCTTCTGCAAGTG 9295
QY 2168 GCGCTGAGGACCGAGTCAAGGAGCTGATGAAGCCACAGGGACTTTGGTCCAGCATCT 2227
Db 9296 GCGCTGAGGACCGAGTCAAGGAGCTGATGAAGCCACAGGGACTTTGGTCCAGCATCT 9355
QY 2228 CAGCACTTCTCTCCAGCTCTGTCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAA 2287
Db 9356 CAGCACTTCTCTCCAGCTCTGTCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAACAAA 9415
QY 2288 GTGCCCTACTATATCAACACGAGACTCAACAACTTCTGCTGGGACCATCCAAAATGACA 2347
Db 9416 GTGCCCTACTATATCAACACGAGACTCAACAACTTCTGCTGGGACCATCCAAAATGACA 9475
QY 2348 GAGCTCTACAGCTTTAGCTGACCTGAATATGTGAGATTCACAGCTTATAGGACTGCC 2407
Db 9476 GAGCTCTACAGCTTTAGCTGACCTGAATATGTGAGATTCACAGCTTATAGGACTGCC 9535

QY 2408 ATGAAACTCCGAAGACTGCAGAAAGGCCCTTCTGTTGGATCTCTTGAGCTCTGAGCTGCA 2467
Db 9536 ATGAAACTCCGAAGACTGCAGAAAGGCCCTTCTGTTGGATCTCTTGAGCTCTGAGCTGCA 9595
QY 2468 TGTGATGCTTGGACCAAGCAACACCTCAAGCAAAAATGACCGCCCATGAGATATCTCTGAG 2527
Db 9596 TGTGATGCTTGGACCAAGCAACACCTCAAGCAAAAATGACCGCCCATGAGATATCTCTGAG 9655
QY 2528 ATTATTAATTTGTTGACCACTATTATGACCGCTTGGAGCAAGAGCACACAATTTGGTC 2587
Db 9656 ATTATTAATTTGTTGACCACTATTATGACCGCTTGGAGCAAGAGCACACAATTTGGTC 9715
QY 2588 AAGTCCCTCTCTGCTGGTATGATGTCTGAACTGGCTGCTGAATGTTTATGATACGGGA 2647
Db 9716 AAGTCCCTCTCTGCTGGTGGATGATGTCTGAACTGGCTGCTGAATGTTTATGATACGGGA 9775
QY 2648 CGAACAGGAGGATCCCTGTCTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCA 2707
Db 9776 CGAACAGGAGGATCCCTGTCTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCA 9835
QY 2708 CATTTGGAAGACAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGAGATTTGT 2767
Db 9836 CATTTGGAAGACAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGAGATTTGT 9895
QY 2768 GACCAGCGCAGCTGGGCTCTCTCTGATGATCTATCCAAATTCACAGACAGTTGGT 2827
Db 9896 GACCAGCGCAGCTGGGCTCTCTCTGATGATCTATCCAAATTCACAGACAGTTGGT 9955
QY 2828 GAAGTTGCATCCTTTGGGGGCGAGTAACATTTGAGC 2861
Db 9956 GAAGTTGCATCCTTTGGGGGCGAGTAACATTTGAGC 9989

Search completed: September 24, 2003, 11:51:55
Job time : 687.126 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: September 23, 2003, 23:43:25 ; Search time 305.721 Seconds
(without alignments)
10756.909 Million cell updates/sec

Title: US-09-845-416-10_COPY_1800_3120

Perfect score: 1321
Sequence: 1 cgcattccagcttcaga.....ctaataaagccagagatc 1321

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1678620 seqs, 1244745471 residues

Total number of hits satisfying chosen parameters: 3357240

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA.*

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- 14: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq.*
- 15: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq.*
- 16: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq.*
- 17: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1321	100.0	1821	12	US-09-845-416-13
2	1321	100.0	2169	12	US-09-845-416-4
3	1321	100.0	3510	12	US-09-845-416-12
4	1321	100.0	3531	12	US-09-845-416-10
5	1321	100.0	3858	12	US-09-845-416-9
6	1321	100.0	3999	12	US-09-845-416-6
7	1321	100.0	4182	12	US-09-845-416-2
8	1321	100.0	4476	12	US-09-845-416-31
9	1321	100.0	4498	12	US-09-845-416-30
10	1321	100.0	4825	12	US-09-845-416-29
11	1321	100.0	4848	12	US-09-845-416-35
12	1321	100.0	4966	12	US-09-845-416-28
13	1321	100.0	4990	12	US-09-845-416-34
14	1321	100.0	5060	12	US-09-845-416-36
15	1321	100.0	5149	12	US-09-845-416-27
16	1321	100.0	11058	12	US-09-845-416-1

17	1321	100.0	13957	10	US-09-782-378A-22	Sequence 22, Appl
18	1321	100.0	13957	10	US-09-880-107-2284	Sequence 2284, Ap
19	1037.6	78.5	3446	12	US-09-845-416-14	Sequence 14, Appl
20	1037.6	78.5	4414	12	US-09-845-416-32	Sequence 32, Appl
21	1036	78.4	1434	12	US-09-845-416-15	Sequence 15, Appl
22	564	42.7	10302	10	US-09-782-378A-23	Sequence 23, Appl
23	555.2	42.0	16531	12	US-10-101-510-667	Sequence 667, App
24	54.2	4.1	449	11	US-09-918-995-24084	Sequence 24084, A
25	54.2	4.1	2247	10	US-09-960-253-157	Sequence 157, App
26	42.8	3.2	1690	14	US-10-037-270-69	Sequence 69, Appl
c 27	41.8	3.2	440	14	US-10-184-644-442	Sequence 442, App
c 28	41.8	3.2	440	14	US-10-184-634-442	Sequence 442, App
c 29	41.8	3.2	1579	12	US-09-814-353-21423	Sequence 21423, A
c 30	41.8	3.2	1579	14	US-10-198-846-10397	Sequence 10397, A
c 31	40	3.0	7420	10	US-09-917-800A-502	Sequence 502, App
c 32	38.8	2.9	431	13	US-10-027-632-02930	Sequence 62930, A
c 33	38.8	2.9	431	13	US-10-027-632-64241	Sequence 64241, A
c 34	38.8	2.9	431	13	US-10-027-632-66118	Sequence 66118, A
c 35	38.8	2.9	579	13	US-10-027-632-41893	Sequence 41893, A
c 36	38.8	2.9	656	13	US-10-027-632-310183	Sequence 310183,
c 37	38.8	2.9	3189	11	US-09-919-039-306	Sequence 306, App
c 38	38.4	2.9	497	11	US-09-918-995-30349	Sequence 30349, A
c 39	38.4	2.9	7787	10	US-09-954-456-2006	Sequence 2006, Ap
c 40	38.4	2.9	7814	12	US-10-133-013-199	Sequence 199, App
c 41	37.6	2.8	417	11	US-09-918-995-3955	Sequence 3955, Ap
c 42	37.6	2.8	1688	12	US-09-873-319-418	Sequence 418, App
c 43	37.6	2.8	1688	12	US-09-960-706-670	Sequence 670, App
c 44	37.4	2.8	3774	14	US-10-156-761-2845	Sequence 2845, Ap
c 45	37.4	2.8	9025608	14	US-10-156-761-1	Sequence 1, Appl

ALIGNMENTS

RESULT 1

US-09-845-416-13
; Sequence 13, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 1821
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-13

Query Match	100.0%	Score 1321;	DB 12;	Length 1821;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1321;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	CGACTTTCCAGCTTCAGAACGACGATGTACATAGGGCTTCAAGAGGGAATTGAA	60	
Db	103	CGACTTTCCAGCTTCAGAACGACGATGTACATAGGGCTTCAAGAGGGAATTGAA	162	
QY	61	AACAAAGAACCTGTAATCATGAGTACTCTGAGACTGTACATATTTCTGCACAGCA	120	
Db	163	AACAAAGAACCTGTAATCATGAGTACTCTGAGACTGTACATATTTCTGCACAGCA	222	
QY	121	GCCTTTGGAGACTAGAGAACTCTACAGAGGCCAGAGCTGGCTCCTCAGAGAG	180	
Db	223	GCCTTTGGAGAGACTAGAGAACTCTACAGAGGCCAGAGCTGGCTCCTCAGAGAG	282	
QY	181	AGCCCAAGATGTCACCTCGCGCTTCTACGAAAGCAGGCTGAGGAGGTCATATCTGAGTGGGA	240	

Db 283 AGCCAGAAATGTCACATCGGCTCTACGAAAGCAGGCTGAGGAGTCAATACCTAGTGGGA 342
QY 241 AAAATTGAACCTGCACCTCGCTGACTGGCAGAGAAAATAGATGAGACCCCTTGAAGACT 300
Db 343 AAAATTGAACCTGCACCTCGCTGACTGGCAGAGAAAATAGATGAGACCCCTTGAAGACT 402
QY 301 CCAGGAATTCAGAGGCGCAGGATGAGCTGGACCTCAAGCTGGCCCAAGCTGAGGTGAT 360
Db 403 CCAGGAATTCAGAGGCGCAGGATGAGCTGGACCTCAAGCTGGCCCAAGCTGAGGTGAT 462
QY 361 CAAGGATCTCGCAGCCGCTGGGATCTCTCATTTGACTCTCTCAAGATCAACCTCGA 420
Db 463 CAAGGATCTCGCAGCCGCTGGGATCTCTCATTTGACTCTCTCAAGATCAACCTCGA 522
QY 421 GAAGTCAAGGCTTCGAGGAGAAATTTGGCCCTCTGAAAGAACGCTGAGCCAGCTCAA 480
Db 523 GAAGTCAAGGCTTCGAGGAGAAATTTGGCCCTCTGAAAGAACGCTGAGCCAGCTCAA 582
QY 481 TGACCTTCTGCGCAGCTTACCACTTTGSGGCAATTCAGCTCTCAGCGTATACCTTCAGC 540
Db 583 TGACCTTCTGCGCAGCTTACCACTTTGSGGCAATTCAGCTCTCAGCGTATACCTTCAGC 642
QY 541 TCTGAGAACCTGAAACACAGATGGAAGCTTCTGAGTGGCGCTCGAGGACCGAGTCAG 600
Db 643 TCTGAGAACCTGAAACACAGATGGAAGCTTCTGAGTGGCGCTCGAGGACCGAGTCAG 702
QY 601 GAGCTGTGATGAGCCGACAGGACTTTGGTCCAGCATCTCAGACTCTTCTTTCCAGCTC 660
Db 703 GAGCTGTGATGAGCCGACAGGACTTTGGTCCAGCATCTCAGACTCTTCTTTCCAGCTC 762
QY 661 TGTCCAGGCTTCTGAGGAGAGCCATCTGCGCAAAAGTGGCCCTACTATATCAACCA 720
Db 763 TGTCCAGGCTTCTGAGGAGAGCCATCTGCGCAAAAGTGGCCCTACTATATCAACCA 822
QY 721 CGAGACTCAAACTTGTGGGACCATCCCAAAATGACAGCTCTACAGTCTTTAGC 780
Db 823 CGAGACTCAAACTTGTGGGACCATCCCAAAATGACAGCTCTACAGTCTTTAGC 882
QY 781 TGACCTGATGATGATGATCTCAGCTTATAGACTGCGATGAGCTGCGATGAGTGGAC 840
Db 883 TGACCTGATGATGATGATCTCAGCTTATAGACTGCGATGAGCTGCGATGAGTGGAC 942
QY 841 GAAGGCCCTTTGTTGATCTCTGAGCTCTGAGCTGCGATGAGTGGACGACCA 900
Db 943 GAAGGCCCTTTGTTGATCTCTGAGCTCTGAGCTGCGATGAGTGGACGACCA 1002
QY 901 CAACTCAAGAAAATGACAGCCCATGATATCTCTGAGTATTAATTTGTTGACCA 960
Db 1003 CAACTCAAGAAAATGACAGCCCATGATATCTCTGAGTATTAATTTGTTGACCA 1062
QY 961 TATTTATGACCGCTGGAGCAGCACAACAAATTTGGTCAAGTCCCTCTCTCGGTGA 1020
Db 1063 TATTTATGACCGCTGGAGCAGCACAACAAATTTGGTCAAGTCCCTCTCTCGGTGA 1122
QY 1021 TATGCTCTGACCTGCTGATGATTTATGATACGGGACGAAACAGGAGGATCCGTGT 1080
Db 1123 TATGCTCTGACCTGCTGATGATTTATGATACGGGACGAAACAGGAGGATCCGTGT 1182
QY 1081 CTTGCTTTTAAACTGCGATCAATTTCCCTGTGTAAGCAGATTTGGAGACAGTACAG 1140
Db 1183 CTTGCTTTTAAACTGCGATCAATTTCCCTGTGTAAGCAGATTTGGAGACAGTACAG 1242
QY 1141 ATACCTTTTAAAGCAAGTGGCAAGTTCACAGGATTTTGTGACCGAGGCTGGGCT 1200
Db 1243 ATACCTTTTAAAGCAAGTGGCAAGTTCACAGGATTTTGTGACCGAGGCTGGGCT 1302
QY 1201 CTTCTGATGATTTCTTCAAAATTCAGACAGTGGGTGAAGTTGATCTTTGGGG 1260
Db 1303 CTTCTGATGATTTCTTCAAAATTCAGACAGTGGGTGAAGTTGATCTTTGGGG 1362
QY 1261 CAGTAACTTGAAGCAGTCTCGGAGCTGCTTCCATTTGCTTAATTAATTAAGCCAGAT 1320
Db 1363 CAGTAACTTGAAGCAGTCTCGGAGCTGCTTCCATTTGCTTAATTAATTAAGCCAGAT 1422

QY 1321 C 1321
Db 1423 C 1423

RESULT 2

US-09-845-416-4
; Sequence 4, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 4
; LENGTH: 2169
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-4

Query Match 100.0%; Score 1321; DB 12; Length 2169;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGACTTTCCAGAGTTCAGAGCAGACGATGTACATAGGCGCTTCAAGAGGAAATTGAA 60
Db 451 CGACTTTCCAGAGTTCAGAGCAGACGATGTACATAGGCGCTTCAAGAGGAAATTGAA 510
QY 61 AACTAAAGAACCTGTATCATGACTTCTTGAGACTGTACGAATATTTCTGACAGACA 120
Db 511 AACTAAAGAACCTGTATCATGACTTCTTGAGACTGTACGAATATTTCTGACAGACA 570
QY 121 GCCTTTGGAGAGTACAGAAACTCTACAGAGCCGACAGAGCTGCCTCTGAGGAGAG 180
Db 571 GCCTTTGGAGAGTACAGAAACTCTACAGAGCCGACAGAGCTGCCTCTGAGGAGAG 630
QY 181 AGCCCAAGATGTCACATCGCTTCTACGAAAGCAGGCTGAGGAGGCAATACCTGAGTGGGA 240
Db 631 AGCCCAAGATGTCACATCGCTTCTACGAAAGCAGGCTGAGGAGGCAATACCTGAGTGGGA 690
QY 241 AAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAATAGATGAGACCTTGAAGACT 300
Db 691 AAAATTGAACCTGCACCTCCGCTGACTGGCAGAGAAAATAGATGAGACCTTGAAGACT 750
QY 301 CCAGGAATTCAGAGGCGCAGGATGAGCTGGACCTCAAGCTGGCCCAAGCTGAGGTGAT 360
Db 751 CCAGGAATTCAGAGGCGCAGGATGAGCTGGACCTCAAGCTGGCCCAAGCTGAGGTGAT 810
QY 361 CAAGGATCTCGCAGCCGCTGGGATCTCTCATTTGACTCTCTCAAGATCAACCTCGA 420
Db 811 CAAGGATCTCGCAGCCGCTGGGATCTCTCATTTGACTCTCTCAAGATCAACCTCGA 870
QY 421 GAAGTCAAGGCTTCGAGGAGAAATTTGGCCCTCTGAAAGAACGCTGAGCCAGCTCAA 480
Db 871 GAAGTCAAGGCTTCGAGGAGAAATTTGGCCCTCTGAAAGAACGCTGAGCCAGCTCAA 930
QY 481 TGACCTTCTGCGCAGCTTACCACTTTGSGGCAATTCAGCTCTCAGCGTATACCTTCAGC 540
Db 931 TGACCTTCTGCGCAGCTTACCACTTTGSGGCAATTCAGCTCTCAGCGTATACCTTCAGC 990
QY 541 TCTGAGAACCTGAAACACAGATGGAAGCTTCTGAGTGGCGCTCGAGGACCGAGTCAG 600
Db 991 TCTGAGAACCTGAAACACAGATGGAAGCTTCTGAGTGGCGCTCGAGGACCGAGTCAG 1050
QY 601 GAGCTGTGATGAGCCGACAGGACTTTGGTCCAGCATCTCAGACTCTTCTTTCCAGCTC 660
Db 1321 C 1321
Db 1423 C 1423


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Db      2799 TATGTCTGAAGTGGCTGCTGAATGTTTATGATACAGGACGAGGAGATCCGCTG 2858
QY      1081 CCTGCTTTTAAACTGGCAATCAATTCCTGTGTAAAGACACATTTGGAGACAGATACAG 1140
Db      2859 CCTGCTTTTAAACTGGCAATCAATTCCTGTGTAAAGACACATTTGGAGACAGATACAG 2918
QY      1141 ATACCTTTTCAAGCAAGTGGCAAGTTCACAGAGATTTGTGACCAGCGCAGGCTGGCCCT 1200
Db      2919 ATACCTTTTCAAGCAAGTGGCAAGTTCACAGAGATTTGTGACCAGCGCAGGCTGGCCCT 2978
QY      1201 CCTTCTGCATGATTCATCCAAATCCAAAGACAGTGGGTGAAGTTGCATCCTTTGGGGG 1260
Db      2979 CCTTCTGCATGATTCATCCAAATCCAAAGACAGTGGGTGAAGTTGCATCCTTTGGGGG 3038
QY      1261 CAGTAAACATTCAGCCAGTGGTCCGAGAGCTGCTTCCAAATTTGCTATATATAGCCAGAGAT 1320
Db      3039 CAGTAAACATTCAGCCAGTGGTCCGAGAGCTGCTTCCAAATTTGCTATATATAGCCAGAGAT 3098
QY      1321 C 1321
Db      3099 C 3099

RESULT 4
US-09-845-416-10
; Sequence 10, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 3531
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-10

Query Match      100.0%; Score 1321; DB 12; Length 3531;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 CGACTTTCCAGCAGTTCAGAAGCAGACAGATGATGATGAGGCGCTTCAAGAGGGAATTGAA 60
Db      1800 CGACTTTCCAGCAGTTCAGAAGCAGACAGATGATGATGAGGCGCTTCAAGAGGGAATTGAA 1859
QY      61 AACTAAGAACCTGTATCATAGTACTCTTGACACTGTACGATATTTCTGACAGAGCA 120
Db      1860 AACTAAGAACCTGTATCATAGTACTCTTGACACTGTACGATATTTCTGACAGAGCA 1919
QY      121 GCCTTTGGAAGGACTAGAGAACTCTACAGAGCGCCAGAGAGCTGCTCTCTGAGGAGAG 180
Db      1920 GCCTTTGGAAGGACTAGAGAACTCTACAGAGCGCCAGAGAGCTGCTCTCTGAGGAGAG 1979
QY      181 AGCCAGAGATGCTACCTGGCTTCTACGAAAGCAGCGCTGAGAGGTCATATCTAGTGGGA 240
Db      1980 AGCCAGAGATGCTACCTGGCTTCTACGAAAGCAGCGCTGAGAGGTCATATCTAGTGGGA 2039
QY      241 AAATTTGAACCTGCATCCGCTGACTGGCAGAGAAAATAGATGAGACCCCTTGAAGACT 300
Db      2040 AAATTTGAACCTGCATCCGCTGACTGGCAGAGAAAATAGATGAGACCCCTTGAAGACT 2099
QY      301 CCAGCAACTTCAAGAGCCACAGATGAGTGGACTCAAGCTCAAGCTCGCCACAGCTGAGGTGAT 360
Db      2100 CCAGCAACTTCAAGAGCCACAGATGAGTGGACTCAAGCTCAAGCTCGCCACAGCTGAGGTGAT 2159
QY      361 CAAGGATCTTGGCAGCCGCTGGGGGATCTCCTCATTGACTCTCTCCAAGATCACTCGA 420

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Db      2160 CAAGGATCTTCCGACCCGCTGGGGATCTCTCTCATTTGACTCTCTCCAGATCACTCGA 2219
QY      421 GAAAGTCAAGGCACTTCGAGAGAAATTTGGCCCTCTGAAAGAGACAGTGGAGCCACGTCAA 480
Db      2220 GAAAGTCAAGGCACTTCGAGAGAAATTTGGCCCTCTGAAAGAGACAGTGGAGCCACGTCAA 2279
QY      481 TGACCTTTGCTCGCCAGCTTACCACTTTGGGCAATTCAGCTCTCACCGTATACCTCAGCAC 540
Db      2280 TGACCTTTGCTCGCCAGCTTACCACTTTGGGCAATTCAGCTCTCACCGTATACCTCAGCAC 2339
QY      541 TCTGGAAGACCTGAACACACAGATGGAAGCTTCTGCAAGTGGCCGTCGAGAGCCAGGTCAG 600
Db      2340 TCTGGAAGACCTGAACACACAGATGGAAGCTTCTGCAAGTGGCCGTCGAGAGCCAGGTCAG 2399
QY      601 GCAGCTGCATGAAGCCACAGAGACTTTGGTCCAGCATCTCAGCACTTTCTTTCCAGCTC 660
Db      2400 GCAGCTGCATGAAGCCACAGAGACTTTGGTCCAGCATCTCAGCACTTTCTTTCCAGCTC 2459
QY      661 TGTCAGGCTCCCTGGGAGAGAGCCATCTGCCAAAACAAAGTGCCTACTATATCAACCA 720
Db      2460 TGTCAGGCTCCCTGGGAGAGAGCCATCTGCCAAAACAAAGTGCCTACTATATCAACCA 2519
QY      721 CGAGACTCAAAACAACTTGTCTGGGACCATCCCAAAATGACAGAGCTCTACCACTTTTACG 780
Db      2520 CGAGACTCAAAACAACTTGTCTGGGACCATCCCAAAATGACAGAGCTCTACCACTTTTACG 2579
QY      781 TGACCTGAATATATGTCAGATCTCAGCTTATAGACTGCGATGAACTCCGAAAGACTGCA 840
Db      2580 TGACCTGAATATATGTCAGATCTCAGCTTATAGACTGCGATGAACTCCGAAAGACTGCA 2639
QY      841 GAAGGCCCTTTGCTTGGATCTCTTGGAGCTGTGATGCTGATGCTGATGCTGATGCTGATGCT 900
Db      2640 GAAGGCCCTTTGCTTGGATCTCTTGGAGCTGTGATGCTGATGCTGATGCTGATGCTGATGCT 2699
QY      901 CAACCTCAAGCAAAATGACAGCCCATGATGATGCTGAGATTTATTAATTTTGGACAC 960
Db      2700 CAACCTCAAGCAAAATGACAGCCCATGATGATGCTGAGATTTATTAATTTTGGACAC 2759
QY      961 TATTTATGACCCGCTTGGAGCAGACACAAATTTGGTCAAGCTCCCTCTCTCGGTGGA 1020
Db      2760 TATTTATGACCCGCTTGGAGCAGACACAAATTTGGTCAAGCTCCCTCTCTCGGTGGA 2819
QY      1021 TATGTCTGAACTGGCTGCTGAATGTTTATGATGAGGACGACAGGAGGATCCGCTGT 1080
Db      2820 TATGTCTGAACTGGCTGCTGAATGTTTATGATGAGGACGACAGGAGGATCCGCTGT 2879
QY      1081 CCTGCTTTTAAACTGGCAATTCCTGTGTAAAGCACATTTTGGAGACAAAGTACAG 1140
Db      2880 CCTGCTTTTAAACTGGCAATTCCTGTGTAAAGCACATTTTGGAGACAAAGTACAG 2939
QY      1141 ATACCTTTTCAAGCAAGTGGCAAGTTCACAGAGATTTGTGACCAGCGCAGGCTGGCCCT 1200
Db      2940 ATACCTTTTCAAGCAAGTGGCAAGTTCACAGAGATTTGTGACCAGCGCAGGCTGGCCCT 2999
QY      1201 CCTTCTGCATGATTCATCCAAATCCAAAGACAGTGGGTGAAGTTGCATCCTTTGGGGG 1260
Db      3000 CCTTCTGCATGATTCATCCAAATCCAAAGACAGTGGGTGAAGTTGCATCCTTTGGGGG 3059
QY      1261 CAGTAAACATTCAGCCAGTGGTCCGAGGCTGCTTCCAAATTTGCTATATATAGCCAGAGAT 1320
Db      3060 CAGTAAACATTCAGCCAGTGGTCCGAGGCTGCTTCCAAATTTGCTATATATAGCCAGAGAT 3119
QY      1321 C 1321
Db      3120 C 3120

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RESULT 5
 US-09-845-416-9
 ; Sequence 9, Application US/09845416
 ; Publication No. US20030171312A1
 ; GENERAL INFORMATION:

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; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 3858
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-9

Query Match      100.0%; Score 1321; DB 12; Length 3858;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 CGACCTTCCAGCAGTTCAGAGCAGACGATGTATACATAGGCGCTTCAAGAGGGAATTGAA 60
DB      2127 CGACCTTCCAGCAGTTCAGAGCAGACGATGTATACATAGGCGCTTCAAGAGGGAATTGAA 2186

QY      61 AACTAAGAAGCTCTATCATGTAGTACTCTTGAGACTGTACGATATTTCTCACAGACA 120
DB      2187 AACTAAGAAGCTCTATCATGTAGTACTCTTGAGACTGTACGATATTTCTCACAGACA 2246

QY      121 GCCTTTGGAAGGACTAGAGAACTCTACAGAGCGCCAGAGAGTGCCTCTCGAGGAGAG 180
DB      2247 GCCTTTGGAAGGACTAGAGAACTCTACAGAGCGCCAGAGAGTGCCTCTCGAGGAGAG 2306

QY      181 AGCCAGAAATGCTACTCGGCTTCTACGAAGCAGCTGAGAGGTCAATACACTGAGTGGGA 240
DB      2307 AGCCAGAAATGCTACTCGGCTTCTACGAAGCAGCTGAGAGGTCAATACACTGAGTGGGA 2366

QY      241 AAAATTGAACCTGCACCTCCGCTGACTGCGCAGAGAAAATAGATGAGACCCCTTGAAGACT 300
DB      2367 AAAATTGAACCTGCACCTCCGCTGACTGCGCAGAGAAAATAGATGAGACCCCTTGAAGACT 2426

QY      301 CCAGGAACCTTCAAGAGGCCACCGATGAGCTGAGCTCAAGCTCGCCCAAGCTGAGGTGAT 360
DB      2427 CCAGGAACCTTCAAGAGGCCACCGATGAGCTGAGCTCAAGCTCGCCCAAGCTGAGGTGAT 2486

QY      361 CRAAGGATCTCGGAGCCCTGGCGGATCTCTCATTTGACTCTCTCCAGAGATCACTCGA 420
DB      2487 CRAAGGATCTCGGAGCCCTGGCGGATCTCTCATTTGACTCTCTCCAGAGATCACTCGA 2546

QY      421 GAAAGTCAAGCAGCTTCAGAGAGAAAATTCGCGCTCTGAAAGAGAGAGTGAAGCCAGTCAA 480
DB      2547 GAAAGTCAAGCAGCTTCAGAGAGAAAATTCGCGCTCTGAAAGAGAGAGTGAAGCCAGTCAA 2606

QY      481 TGACCTTGTCTGCCAGCTTACCAGTTTGGGCAATTCAGCTCTCAAGCTTAACTCAGAC 540
DB      2607 TGACCTTGTCTGCCAGCTTACCAGTTTGGGCAATTCAGCTCTCAAGCTTAACTCAGAC 2666

QY      541 TGTGAGAACCTTGACACAGATGGAAGCTTCTGAGGTGGCGGTGAGAGCCGAGTCAAG 600
DB      2667 TGTGAGAACCTTGACACAGATGGAAGCTTCTGAGGTGGCGGTGAGAGCCGAGTCAAG 2726

QY      601 GCAGCTGATGAAGCCACAGGAGCTTGTGTCACATCTCAGACATCTTCTTCCACATC 660
DB      2727 GCAGCTGATGAAGCCACAGGAGCTTGTGTCACATCTCAGACATCTTCTTCCACATC 2786

QY      661 TGTCCAGGCTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTTACTATATCAACCA 720
DB      2787 TGTCCAGGCTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTTACTATATCAACCA 2846

QY      721 CGAGACTCAACAACTTGTGGGAGCCATCCCAAAATGACAGAGTCTACACGCTTTTAC 780
DB      2847 CGAGACTCAACAACTTGTGGGAGCCATCCCAAAATGACAGAGTCTACACGCTTTTAC 2906

QY      781 TGACCTGATATATGTCAGATCTTCAGCTTATAGGACTGCCATGAAGACTCGGAGACTGCA 840
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DB      2907 TGACCTGATATATGTCAGATCTTCAGCTTATAGACTGCCATGAAATCCGAGACTGCA 2966
QY      841 GAAGGCCCTTTGCTTGGATCTCTTGGAGCTGTGAGCTGTGATGCTGATGCTTGGACACGA 900
DB      2967 GAAGGCCCTTTGCTTGGATCTCTTGGAGCTGTGAGCTGTGATGCTTGGACACGA 3026
QY      901 CAACCTCAAGCAAAATGACAGCCCATGATATCTCTCAGATTAATTAATTTGTTGACAC 960
DB      3027 CAACCTCAAGCAAAATGACAGCCCATGATATCTCTCAGATTAATTAATTTGTTGACAC 3086
QY      961 TATTTATGACCGCTGAGCAGCAGACACAATTTGTCAGCTCCCTCTCTCGGTGGA 1020
DB      3087 TATTTATGACCGCTGAGCAGCAGACACAATTTGTCAGCTCCCTCTCTCGGTGGA 3146
QY      1021 TATGTCTGTAACCTGGCTGCTGAATGTTTATGATACAGGAGCAACAGGAGGATCCGTGT 1080
DB      3147 TATGTCTGTAACCTGGCTGCTGAATGTTTATGATACAGGAGCAACAGGAGGATCCGTGT 3206
QY      1081 CTGTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAGATACAG 1140
DB      3207 CTGTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAGATACAG 3266
QY      1141 ATACCTTTTCAAGCAAGTGGCAAGTTTCAACAGGATTTGTGACAGCGCAGCTGGGCT 1200
DB      3267 ATACCTTTTCAAGCAAGTGGCAAGTTTCAACAGGATTTGTGACAGCGCAGCTGGGCT 3326
QY      1201 CCTTCTGATGATTTCTATCCAAATTCACAGACAGTGGGTGAAGTTGCATCCTTTGGGG 1260
DB      3327 CCTTCTGATGATTTCTATCCAAATTCACAGACAGTGGGTGAAGTTGCATCCTTTGGGG 3386
QY      1261 CAGTAACATGAGCCAGTGTCCGAGCTGCTTCCAAATTTGCTTAATAAAGCAGAGAT 1320
DB      3387 CAGTAACATGAGCCAGTGTCCGAGCTGCTTCCAAATTTGCTTAATAAAGCAGAGAT 3446
QY      1321 C 1321
DB      3447 C 3447

RESULT 6
US-09-845-416-6
; Sequence 6, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 3999
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-6

Query Match      100.0%; Score 1321; DB 12; Length 3999;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 CGACTTTCACAGCTTCAGAGCAGACGATGTATAGGCGCTTCAAGAGGGAATTGAA 60
DB      2268 CGACTTTCACAGCTTCAGAGCAGACGATGTATAGGCGCTTCAAGAGGGAATTGAA 2327

QY      61 AACTAAGAAGCTCTATCATGTAGTACTCTTTCAGACTGTACGATATTTCTTCACAGACA 120
DB      2328 AACTAAGAAGCTCTATCATGTAGTACTCTTTCAGACTGTACGATATTTCTTCACAGACA 2387
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121 GCCTTGGAGGACTAGAGAACTCTACAGAGCCAGAGAGCTGCCTCTCTGAGGAG 180
Db
2388 GCCTTTGAGGAGCTAGAGAACTCTACAGAGCCAGAGAGCTGCCTCTCTGAGGAG 2447
Qy
181 AGCCAGAAATGTCACCTGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACCTAGTGGGA 240
Db
2448 AGCCAGAAATGTCACCTGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACCTAGTGGGA 2507
Qy
241 AAAATGAACTGCACCTGGCTGACTGGCAGAGAAATAGATGAGACCTTTGAAAGACT 300
Db
2508 AAAATGAACTGCACCTGGCTGACTGGCAGAGAAATAGATGAGACCTTTGAAAGACT 2567
Qy
301 CCAGGAACCTCAAGAGCCACAGGATGAGCTGCACTCAAGCTGCAGCAAGCTGAGTGGAT 360
Db
2568 CCAGGAACCTCAAGAGCCACAGGATGAGCTGCACTCAAGCTGCAGCAAGCTGAGTGGAT 2627
Qy
361 CAAGGATCTGGAGCCGCTGGGAGTCTCTCATTTGACTCTCTCCAGATCACTCTCGA 420
Db
2628 CAAGGATCTGGAGCCGCTGGGAGTCTCTCATTTGACTCTCTCCAGATCACTCTCGA 2687
Qy
421 GAAAGTCAAGGCACTTCGAGGAGAAATGGCCCTCTGAAAGAGAGCTGAGCCAGTCAA 480
Db
2688 GAAAGTCAAGGCACTTCGAGGAGAAATGGCCCTCTGAAAGAGAGCTGAGCCAGTCAA 2747
Qy
481 TGACCTGCTGCGGAGCTTACCACTTTGGGCAATTCAGCTCTCACCGTATACCTCAGCAC 540
Db
2748 TGACCTGCTGCGGAGCTTACCACTTTGGGCAATTCAGCTCTCACCGTATACCTCAGCAC 2807
Qy
541 TCTGAGAGCTGAGACCAAGATGAAAGCTTCTCAGGCTGGCTGGAGCCAGTCAAG 600
Db
2808 TCTGAGAGCTGAGACCAAGATGAAAGCTTCTCAGGCTGGCTGGAGCCAGTCAAG 2867
Qy
601 GCAGCTGATGAGCCACAGGAGCTTTGGTCCAGCATCTCAGCACTTCTTTCCAGCTC 660
Db
2868 GCAGCTGATGAGCCACAGGAGCTTTGGTCCAGCATCTCAGCACTTCTTTCCAGCTC 2927
Qy
661 TGTCCAGGCTGCTGGAGAGAGCAATCTGCCAAAGAGTCCCTACTATACCAACCA 720
Db
2928 TGTCCAGGCTGCTGGAGAGAGCAATCTGCCAAAGAGTCCCTACTATACCAACCA 2987
Qy
721 CGAGACTCAAAACACTTGTGGAGCACTCCCAAAATGACAGAGCTCTACAGCTCTTACG 780
Db
2988 CGAGACTCAAAACACTTGTGGAGCACTCCCAAAATGACAGAGCTCTACAGCTCTTACG 3047
Qy
781 TGACCTGATTAATGTCAGATCTCTCAGCTTATAGGACTGCCATGAAACTCCGAGAGCTGCA 840
Db
3048 TGACCTGATTAATGTCAGATCTCTCAGCTTATAGGACTGCCATGAAACTCCGAGAGCTGCA 3107
Qy
841 GAGGCCCTTTGCTGGATCTCTGAGCCTCTCAGCTGCAATGATGATGCTGGAGCAGCA 900
Db
3108 GAGGCCCTTTGCTGGATCTCTGAGCCTCTCAGCTGCAATGATGATGCTGGAGCAGCA 3167
Qy
901 CAACCTCAAGCAAAATGACAGCCATGATATCTCTCAGATTAATTAATGTTTGACCA 960
Db
3168 CAACCTCAAGCAAAATGACAGCCATGATATCTCTCAGATTAATTAATGTTTGACCA 3227
Qy
961 TATTTATGACGCTGGAGCAGAGCAACAATTTGGTCAAGCTCCCTCTCTGCGTGGGA 1020
Db
3228 TATTTATGACGCTGGAGCAGAGCAACAATTTGGTCAAGCTCCCTCTCTGCGTGGGA 3287
Qy
1021 TATGCTGCTGAGCTGCTGAATGTTTATGATACGGGAGCAGCAGGAGGATCCGTGT 1080
Db
3288 TATGCTGCTGAGCTGCTGAATGTTTATGATACGGGAGCAGCAGGAGGATCCGTGT 3347
Qy
1081 CCTGTCTTTTAAATGGCATTTCCCTGTGTAAAGCAGATTTTGGAGAGCAAGTACAG 1140
Db
3348 CCTGTCTTTTAAATGGCATTTCCCTGTGTAAAGCAGATTTTGGAGAGCAAGTACAG 3407
Qy
1141 ATACCTTTTAAAGCAAGTGGCAAGTTTGAACAGGATTTTGTACCCAGCAGGCTGGCCCT 1200
Db
3408 ATACCTTTTAAAGCAAGTGGCAAGTTTGAACAGGATTTTGTACCCAGCAGGCTGGCCCT 3467
Qy
1201 CCTTCTGCTATGATTCATCCAAATCCAGAGAGCTTGGGTGAGATGCTCCTTTGGGGG 1260

Db 3468 CTTCTGCTATGATTCATCCAAATCCAGAGAGCTTGGGTGAGTTCATCCTTTGGGGG 3527
Qy 1261 CAGTAACATTCAGCCAAAGTGTCCGAGCTGCTCCCAATTTGCTTAATAATAGCCAGAGAT 1320
Db 3528 CAGTAACATTCAGCCAAAGTGTCCGAGCTGCTCCCAATTTGCTTAATAATAGCCAGAGAT 3587
Qy 1321 C 1321
Db 3588 C 3588
RESULT 7
US-09-845-416-2
; Sequence 2, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4182
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-2
Query Match 100.0%; Score 1321; DB 12; Length 4182;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 CGACTTCCAGCAGTTCAGAGCAGAGAGATGTATACATAGGCTTCTGAGAGCTGACGAGCA 120
Db 2451 CGACTTCCAGCAGTTCAGAGCAGAGAGATGTATACATAGGCTTCTGAGAGCTGACGAGCA 2510
Qy 61 AACTAAGAACCTTGTATCATGATGATCTTGTAGAGCTGACGAGCAATTTCTGACAGAGCA 120
Db 2511 AACTAAGAACCTTGTATCATGATGATCTTGTAGAGCTGACGAGCAATTTCTGACAGAGCA 2570
Qy 121 GCCTTTGGAAGGACTAGAGAACTCTACAGAGCCAGAGAGCTGCCTCTCTGAGGAGAG 180
Db 2571 GCCTTTGGAAGGACTAGAGAACTCTACAGAGCCAGAGAGCTGCCTCTCTGAGGAGAG 2630
Qy 181 AGCCAGAAATGTCACCTGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACCTAGTGGGA 240
Db 2631 AGCCAGAAATGTCACCTGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACCTAGTGGGA 2690
Qy 241 AAAATGAACTGCACCTGGCTGACTGGCAGAGAAATAGATGAGACCTTTGAAAGACT 300
Db 2691 AAAATGAACTGCACCTGGCTGACTGGCAGAGAAATAGATGAGACCTTTGAAAGACT 2750
Qy 301 CCAGGAACCTCAAGAGCCACAGGATGAGCTGCACTCAAGCTGCAGCAAGCTGAGTGGAT 360
Db 2751 CCAGGAACCTCAAGAGCCACAGGATGAGCTGCACTCAAGCTGCAGCAAGCTGAGTGGAT 2810
Qy 361 CAAGGATCTGGAGCCGCTGGGAGTCTCTCATTTGACTCTCTCCAGATCACTCTCGA 420
Db 2811 CAAGGATCTGGAGCCGCTGGGAGTCTCTCATTTGACTCTCTCCAGATCACTCTCGA 2870
Qy 421 GAAAGTCAAGGCACTTCGAGGAGAAATGGCCCTCTGAAAGAGAGCTGAGCCAGTCAA 480
Db 2871 GAAAGTCAAGGCACTTCGAGGAGAAATGGCCCTCTGAAAGAGAGCTGAGCCAGTCAA 2930
Qy 481 TGACCTGCTGCGGAGCTTACCACTTTGGGCAATTCAGCTCTCACCGTATACCTCAGCAC 540
Db 2931 TGACCTGCTGCGGAGCTTACCACTTTGGGCAATTCAGCTCTCACCGTATACCTCAGCAC 2990


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QY 541 TCTGGAGACCTGACACCCAGATGGAAGCTTCTGCAGCTGGCCCTCGAGGACCGAGTCA 600
Db 2991 TCTGGAGACCTGACACCCAGATGGAAGCTTCTGCAGCTGGCCCTCGAGGACCGAGTCA 600
QY 601 GCAGCTGCATGAAGCCACACAGGACCTTGGTCCACATCTCAGCACTTCTTTCACGTC 660
Db 3051 GCAGCTGCATGAAGCCACACAGGACCTTGGTCCACATCTCAGCACTTCTTTCACGTC 660
QY 661 TGTCCAGGCTCCCTGGGAGAGCCATCTCGCCAAACAAGTGCCTTACTATATCAACA 720
Db 3111 TGTCCAGGCTCCCTGGGAGAGCCATCTCGCCAAACAAGTGCCTTACTATATCAACA 720
QY 721 CGAGACTCAACAACCTGCTGGGACCATCCCAAAATGACAGAGCTCTTACCAGTCTT 780
Db 3171 CGAGACTCAACAACCTGCTGGGACCATCCCAAAATGACAGAGCTCTTACCAGTCTT 780
QY 781 TGACCTGTAATATGTCAGATTCAGCTTATAGGACTGCCATGAATCCGAAAGACTGCA 840
Db 3231 TGACCTGTAATATGTCAGATTCAGCTTATAGGACTGCCATGAATCCGAAAGACTGCA 840
QY 841 GAAGGCCCTTTCGTTGGATCTCTGAGCCCTGTCAGCTGCATGTGATGCCCTTGGACCA 900
Db 3291 GAAGGCCCTTTCGTTGGATCTCTGAGCCCTGTCAGCTGCATGTGATGCCCTTGGACCA 900
QY 901 CAACCTCAGCAAAATGACAGCCCATGGATATCTCGAGATTATTAATTTGTTGACCA 960
Db 3351 CAACCTCAGCAAAATGACAGCCCATGGATATCTCGAGATTATTAATTTGTTGACCA 960
QY 961 TATTATGACCGCTGGAGCAAGAGCAACAATTTGGTCAACGCTCCCTCTCGGTGGA 1020
Db 3411 TATTATGACCGCTGGAGCAAGAGCAACAATTTGGTCAACGCTCCCTCTCGGTGGA 1020
QY 1021 TATGTCTGCAACTGGCTGCTGAATTTATGATACGGGACAAAGAGGAGTCCGCT 1080
Db 3471 TATGTCTGCAACTGGCTGCTGAATTTATGATACGGGACAAAGAGGAGTCCGCT 1080
QY 1081 CTTGCTTTTAAACTGGCATCTATTCCTGTGTAAGCACATTTGGAAGACAACTACAG 1140
Db 3531 CTTGCTTTTAAACTGGCATCTATTCCTGTGTAAGCACATTTGGAAGACAACTACAG 1140
QY 1141 ATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTGTGACCAAGCGAGGCTGGGCT 1200
Db 3591 ATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTGTGACCAAGCGAGGCTGGGCT 1200
QY 1201 CTTCTGCAAGATTCATFCAAAATTCGAAGAGAGTGGGTGAATTCATCTTGGGGG 1260
Db 3651 CTTCTGCAAGATTCATFCAAAATTCGAAGAGAGTGGGTGAATTCATCTTGGGGG 1260
QY 1261 CAGTAACATTGAGCCAGTGTCCGAGCTGCTTCCAATTTGCTAATAAAGCCAGAGAT 1320
Db 3711 CAGTAACATTGAGCCAGTGTCCGAGCTGCTTCCAATTTGCTAATAAAGCCAGAGAT 1320
QY 1321 C 1321
Db 3771 C 3771
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RESULT 8

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US-09-845-416-31
; Sequence 31, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE OF INVENTION: THEREOF
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 31
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; LENGTH: 4476
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-31

Query Match      100.0%; Score 1321; DB 12; Length 4476;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGACTTTCCAGCAGTTTCAGAGCAGAACGATCTACATAGGCGCTTCAAGAGGAATTGAA 60
Db 2535 CGACTTTCCAGCAGTTTCAGAGCAGAACGATCTACATAGGCGCTTCAAGAGGAATTGAA 2534
QY 61 AACTAAGAACCTGTAATCATGATGACTCTTGGAGACTCTAGCAATATTTGACAGACA 120
Db 2595 AACTAAGAACCTGTAATCATGATGACTCTTGGAGACTCTAGCAATATTTGACAGACA 2594
QY 121 GCTTTGGAGAGCTAGAGAACTCTACCAGAGCCCGAGAGAGCTGCTCCTCAGGAGAG -180
Db 2655 GCTTTGGAGAGCTAGAGAACTCTACCAGAGCCCGAGAGAGCTGCTCCTCAGGAGAG 2714
QY 181 AGCCAGAAATGTCATCTGGGCTTCTAGAAAGCAGGCTGAGGAGTCAATATCTGAGTGGGA 240
Db 2715 AGCCAGAAATGTCATCTGGGCTTCTAGAAAGCAGGCTGAGGAGTCAATATCTGAGTGGGA 2714
QY 241 AAAATTGAACCTGTCACCTCCGCTGACTGGCAGAGAAAATAGATGAGACCCCTTGAAGACT 300
Db 2775 AAAATTGAACCTGTCACCTCCGCTGACTGGCAGAGAAAATAGATGAGACCCCTTGAAGACT 2834
QY 301 CCAGGAACTTCAAGAGGCCACCGATGAGTGGACCTCAAGCTGCGCCCAAGCTGAGTGGAT 360
Db 2835 CCAGGAACTTCAAGAGGCCACCGATGAGTGGACCTCAAGCTGCGCCCAAGCTGAGTGGAT 2894
QY 361 CAAGGATCTCTGGAGCGCCCTGGGCGATCTCTCATTTGACTCTCTCCAGATCACTCGA 420
Db 2895 CAAGGATCTCTGGAGCGCCCTGGGCGATCTCTCATTTGACTCTCTCCAGATCACTCGA 2954
QY 421 GAAAGTCAAGGCACTTCAGAGAGAAATTTGGCCTCTGAAAGAGAACGTGAGCCACGTCAA 480
Db 2955 GAAAGTCAAGGCACTTCAGAGAGAAATTTGGCCTCTGAAAGAGAACGTGAGCCACGTCAA 3014
QY 481 TGACCTTGTCCCGCAGCTTACCCTTTGGGCAATTCAGCTCTCACCGTATACCTCAGCAG 540
Db 3015 TGACCTTGTCCCGCAGCTTACCCTTTGGGCAATTCAGCTCTCACCGTATACCTCAGCAG 3074
QY 541 TCTGGAAGACCTTGACACCCAGAGAGTGGAGCTTCTGAGGTGGCCGTGAGGACCGAGTCAG 600
Db 3075 TCTGGAAGACCTTGACACCCAGAGAGTGGAGCTTCTGAGGTGGCCGTGAGGACCGAGTCAG 3134
QY 601 GCAGCTGCATGAAGCCACAGGAGCTTTGGTCCAGCATCTCAGCACTTTCTTCCAGCTC 660
Db 3135 GCAGCTGCATGAAGCCACAGGAGCTTTGGTCCAGCATCTCAGCACTTTCTTCCAGCTC 3194
QY 661 TGTCCAGGCTCCCTGGGAGAGAGCCATCTCGCCAAACAAGTGCCTTACTATATCAACA 720
Db 3195 TGTCCAGGCTCCCTGGGAGAGAGCCATCTCGCCAAACAAGTGCCTTACTATATCAACA 3254
QY 721 CGAGACTCAACAACCTTGTCTGGGAGCCATCCCAAAATGACAGAGCTCTTACCGCTTTAGC 780
Db 3255 CGAGACTCAACAACCTTGTCTGGGAGCCATCCCAAAATGACAGAGCTCTTACCGCTTTAGC 3314
QY 781 TGACCTGTAATATGTCAGATTCAGCTTATAGGACTGCCATGAATCCGAAAGACTGCA 840
Db 3315 TGACCTGTAATATGTCAGATTCAGCTTATAGGACTGCCATGAATCCGAAAGACTGCA 3374
QY 841 GAAGGCCCTTTCGTTGGATCTCTTGGAGCTGTCAGCTGCATGTGATGCCCTTGGACCA 900
Db 3375 GAAGGCCCTTTCGTTGGATCTCTTGGAGCTGTCAGCTGCATGTGATGCCCTTGGACCA 3434
QY 901 CAACCTCAGCAAAATGACAGCCCATGGATATCTCGAGATTATTAATTTGTTGACCA 960
Db 3435 CAACCTCAGCAAAATGACAGCCCATGGATATCTCGAGATTATTAATTTGTTGACCA 3494
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QY 961 TATTATGACCGCTGGAGCAAGACACACAAATTTGGTCAAGCGCCCTCTCTCGGTGGA 1020
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 3495 TATTATGACCGCTGGAGCAAGACACACAAATTTGGTCAAGCGCCCTCTCTCGGTGGA 3554
 QY 1021 TATGTGCTGAACTGGCTCTGTAATGTTATGATACGGGACGACAAAGGAGGATCCGTGT 1080
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 3555 TATGTGCTGAACTGGCTCTGTAATGTTATGATACGGGACGACAAAGGAGGATCCGTGT 3614
 QY 1081 CCTGTCTTTAAACAGGACATCTCCCTGTGTAAAGCACATTTGGAGACAAGTACAG 1140
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 3615 CCTGTCTTTAAACAGGACATCTCCCTGTGTAAAGCACATTTGGAGACAAGTACAG 3674
 QY 1141 ATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTGTGACCGCAGGCTGGGCGT 1200
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 3675 ATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTGTGACCGCAGGCTGGGCGT 3734
 QY 1201 CCTTCTGTGATTCATCCAAATTCGAAGCAGTTGGGTGAAGTTGATCCTTTGGGGG 1260
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 3735 CCTTCTGTGATTCATCCAAATTCGAAGCAGTTGGGTGAAGTTGATCCTTTGGGGG 3794
 QY 1261 CAGTAAACATTCAGCCAGTGTCCGGAGCTGCTTCCAAATTTGCTAATAAAGCCAGAGAT 1320
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 3795 CAGTAAACATTCAGCCAGTGTCCGGAGCTGCTTCCAAATTTGCTAATAAAGCCAGAGAT 3854
 QY 1321 C 1321
 DB ||
 3855 C 3855
 RESULT 9
 US-09-845-416-30
 ; Sequence 30, Application US/09845416
 ; Publication No. US20030171312A1
 ; GENERAL INFORMATION:
 ; APPLICANT: XIAO, XIAO
 ; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
 ; FILE OF INVENTION: THEREOF
 ; FILE REFERENCE: DEL142
 ; CURRENT APPLICATION NUMBER: US/09/845,416
 ; PRIOR FILING DATE: 2001-04-30
 ; PRIOR APPLICATION NUMBER: 60/200,777
 ; PRIOR FILING DATE: 2000-04-28
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: PatentIn Ver. 2.1
 ; SEQ ID NO 30
 ; LENGTH: 4498
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-09-845-416-30
 Query Match 100.0%; Score 1321; DB 12; Length 4498;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 CGACTTTCAGCAGTTTCAGAACGACGATGTATACATAGGCGCTTCAAGAGGGAATTGAA 60
 DB 2557 CGACTTTCAGCAGTTTCAGAACGACGATGTATACATAGGCGCTTCAAGAGGGAATTGAA 2616
 QY 61 AACTAAGAACCTGTAATCATAGTACTCTTTGAGACTGTACGAAATATTTCTGACAGACCA 120
 DB 2617 AACTAAGAACCTGTAATCATAGTACTCTTTGAGACTGTACGAAATATTTCTGACAGACCA 2676
 QY 121 GCCTTTGGAAGGACTAGAGAACTCTACAGAGGCCAGAGAGCTGCCCTCTGAGGAGAG 180
 DB 2677 GCCTTTGGAAGGACTAGAGAACTCTACAGAGGCCAGAGAGCTGCCCTCTGAGGAGAG 2736
 QY 181 AGCCAGAAATGCTACTCGGCTTCTACGAAAGCAGGCTGAGAGGTCATATCTGAGTGGGA 240
 DB 2737 AGCCAGAAATGCTACTCGGCTTCTACGAAAGCAGGCTGAGAGGTCATATCTGAGTGGGA 2796
 QY 241 AAAATGAACTGCTACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTTGAAAGACT 300
 DB 2797 AAAATGAACTGCTACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTTGAAAGACT 3856

QY 301 COAGGAACTTCAAGAGCCACGGAATGAGCTGAGCTCAAGCTGCGCCAAAGCTGAGGTGAT 360
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 2857 CCAGGAAGCTTCAAGAGCCACGGAATGAGCTGAGCTCAAGCTGCGCCAAAGCTGAGGTGAT 2916
 QY 361 CAAGGATCTCTGGCAGCCGCTGGGCGATCTCTCATTTGACTCTCTCCAAAGATCACTCGA 420
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 2917 CAAGGATCTCTGGCAGCCGCTGGGCGATCTCTCATTTGACTCTCTCCAAAGATCACTCGA 2976
 QY 421 GAAAGTCAAGGCACTTCGAGGAGAAATTTGCCCTCTCTGAAGAGACGTCGAGCCAGTCAA 480
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 2977 GAAAGTCAAGGCACTTCGAGGAGAAATTTGCCCTCTCTGAAGAGACGTCGAGCCAGTCAA 3036
 QY 481 TGACCTTGTCTGGCAGCTTACCACTTTTGGGCAATTCAGCTCTCACCGTATTAACCTCAGCAC 540
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 3037 TGACCTTGTCTGGCAGCTTACCACTTTTGGGCAATTCAGCTCTCACCGTATTAACCTCAGCAC 3096
 QY 541 TCTGGAAGACCTGAACACACAGATGGAAGCTTCTCCAGTGGCGCTGAGGAGCCAGTCAAG 600
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 3097 TCTGGAAGACCTGAACACACAGATGGAAGCTTCTCCAGTGGCGCTGAGGAGCCAGTCAAG 3156
 QY 601 SCAGCTGCATCAAGCCACAGGAGCTTTGGTCCAGCATCTCAGCACTTTCTTCCAGGTC 660
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 3157 GCAGCTGCATCAAGCCACAGGAGCTTTGGTCCAGCATCTCAGCACTTTCTTCCAGGTC 3216
 QY 661 TGTCCAGGCTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTACTATATCAACCA 720
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 3217 TGTCCAGGCTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTACTATATCAACCA 3276
 QY 721 CGAGACTCAAAACACTTGTGGGAGCCATCCCAAATGACAGACTCTACCACTCTTTAGC 780
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 3277 CGAGACTCAAAACACTTGTGGGAGCCATCCCAAATGACAGACTCTACCACTCTTTAGC 3336
 QY 781 TGACCTGTAATCTCAGATTTCTCAGCTTATAGACTGCCATGAACACTCCGAAGACTGCA 840
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 3337 TGACCTGTAATCTCAGATTTCTCAGCTTATAGACTGCCATGAACACTCCGAAGACTGCA 3396
 QY 841 GAAGCCCTTTGCTTGGATCTCTTGGAGCTGTGAGCTGCATGTGATSCCTTTGGACCA 900
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 3397 GAAGCCCTTTGCTTGGATCTCTTGGAGCTGTGAGCTGCATGTGATSCCTTTGGACCA 3456
 QY 901 CAACCTCAAGCAAAATGACAGCCATGATATCTCGAGATTATTAATTTGTTGACCA 960
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 3457 CAACCTCAAGCAAAATGACAGCCATGATATCTCGAGATTATTAATTTGTTGACCA 3516
 QY 961 TATTTATGACCGCTGAGCAGACGACACAATTTGTCAGCTCCCTCTCTGGTGGGA 1020
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 3517 TATTTATGACCGCTGAGCAGACGACACAATTTGTCAGCTCCCTCTCTGGTGGGA 3576
 QY 1021 TATGTGCTGAACCTGGCTGCTGAATGTTTATGATACGGGACGACAGGAGGATCCGTGT 1080
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 3577 TATGTGCTGAACCTGGCTGCTGAATGTTTATGATACGGGACGACAGGAGGATCCGTGT 3636
 QY 1081 CTTGCTTTTAAAACACTGGCATACTTCCCTGTGTAAGACACATTTGGAAGACAATACAG 1140
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 3637 CTTGCTTTTAAAACACTGGCATACTTCCCTGTGTAAGACACATTTGGAAGACAATACAG 3696
 QY 1141 ATACCTTTTCAAGCAAGTGGCAGTTCAACAGGATTTGTGACCGCAGCTGGGCT 1200
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 3697 ATACCTTTTCAAGCAAGTGGCAGTTCAACAGGATTTGTGACCGCAGCTGGGCT 3756
 QY 1201 CTTCTGATCATCTATCCAAATTCGAAGACAGTTGGTGAAGTTGCACTCTTTGGGGG 1260
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 3757 CTTCTGATCATCTATCCAAATTCGAAGACAGTTGGTGAAGTTGCACTCTTTGGGGG 3816
 QY 1261 CAGTAAACATTCGAGCAGGTCGCGAGCTGCTCCAAATTTGCTAATAATAAGCCAGAGAT 1320
 DB ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
 3817 CAGTAAACATTCGAGCAGGTCGCGAGCTGCTCCAAATTTGCTAATAATAAGCCAGAGAT 3876
 QY 1321 C 1321
 DB ||
 3877 C 3877

RESULT 10

US-09-845-416-29
; Sequence 29, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 29
; LENGTH: 4825
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-29

Query Match 100.0%; Score 1321; DB 12; Length 4825;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGACTTCCAGCAGTTCAGAGCAGAACGATGTACATAGGCGCTTCAAGAGGGAATTGAA 60
DB 2884 CGACTTCCAGCAGTTCAGAGCAGAACGATGTACATAGGCGCTTCAAGAGGGAATTGAA 2943

QY 61 ACTAAGAACCTGTATCATGTAGTACTCTTGAGACTGTAGCATATTTCTGACAGACA 120
DB 2944 ACTAAGAACCTGTATCATGTAGTACTCTTGAGACTGTAGCATATTTCTGACAGACA 3003

QY 121 GCTTTGGAAGGACTTAGAGAACTCTACAGAGAGCCAGAGAGTGGCTCTCAGAGAGAG 180
DB 3004 GCTTTGGAAGGACTTAGAGAACTCTACAGAGAGCCAGAGAGTGGCTCTCAGAGAGAG 3063

QY 181 AGCCAGAAATGTCACCTGGGTTCTAGAAAGCAGGCTGAGGAGTCAATAGTGGGGA 240
DB 3064 AGCCAGAAATGTCACCTGGGTTCTAGAAAGCAGGCTGAGGAGTCAATAGTGGGGA 3123

QY 241 AAAATTGACCTGCACTCCGCTGACTGCGCAGAGAAATAGATGAGACCCCTTGAAGACT 300
DB 3124 AAAATTGACCTGCACTCCGCTGACTGCGCAGAGAAATAGATGAGACCCCTTGAAGACT 3183

QY 301 CCAGGAACCTTCAAGAGGCCAGGATGAGCTGGACCTCAAGCTGGCCCAAGCTGAGTGAT 360
DB 3184 CCAGGAACCTTCAAGAGGCCAGGATGAGCTGGACCTCAAGCTGGCCCAAGCTGAGTGAT 3243

QY 361 CRAGGATCCTGGCAGCCGCTGGGCGATCTCTGACTTCTGACTCTCTCCAAAGATCACTCGA 420
DB 3244 CRAGGATCCTGGCAGCCGCTGGGCGATCTCTGACTTCTGACTCTCTCCAAAGATCACTCGA 3303

QY 421 GAAAGTCAGGCACTTCAGAGAGAAATGCGCTCTGAAAGAGACGCTGAGCCAGCTCAA 480
DB 3304 GAAAGTCAGGCACTTCAGAGAGAAATGCGCTCTGAAAGAGACGCTGAGCCAGCTCAA 3363

QY 481 TGACCTTGCTGCCAGCTTACCACTTTGGGCATTCAGCTCTCAACGCTATACCTCAGAC 540
DB 3364 TGACCTTGCTGCCAGCTTACCACTTTGGGCATTCAGCTCTCAACGCTATACCTCAGAC 3423

QY 541 TCTGGAAGACCTTGAACACCAAGATGGAAGTTCTGAGGTGGCCCTCGAGGACCGAGTCAG 600
DB 3424 TCTGGAAGACCTTGAACACCAAGATGGAAGTTCTGAGGTGGCCCTCGAGGACCGAGTCAG 3483

QY 601 GCAGCTGCATGAGCCACAGGAGCTTGGTCCAGCATCTCAGCACTTCTTTTCCAGTC 660
DB 3484 GCAGCTGCATGAGCCACAGGAGCTTGGTCCAGCATCTCAGCACTTCTTTTCCAGTC 3543

QY 661 TGTCCAGGCTCCCTGGGAGAGGCCATCTCGCCAAACAAAGTGGCCCTACTATATCAACA 720
DB 3544 TGTCCAGGCTCCCTGGGAGAGGCCATCTCGCCAAACAAAGTGGCCCTACTATATCAACA 3603

RESULT 11

US-09-845-416-35
; Sequence 35, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
; LENGTH: 4848
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-35

Query Match 100.0%; Score 1321; DB 12; Length 4848;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGACTTCCAGCAGTTCAGAGCAGAACGATGTACATAGGCGCTTCAAGAGGGAATTGAA 60
DB 2884 CGACTTCCAGCAGTTCAGAGCAGAACGATGTACATAGGCGCTTCAAGAGGGAATTGAA 2943

QY 61 ACTAAGAACCTGTATCATGTAGTACTCTTGAGACTGTAGCATATTTCTGACAGACA 120
DB 2944 ACTAAGAACCTGTATCATGTAGTACTCTTGAGACTGTAGCATATTTCTGACAGACA 3003

QY 121 GCTTTGGAAGGACTTAGAGAACTCTACAGAGAGCCAGAGAGTGGCTCTCAGAGAGAG 180
DB 3004 GCTTTGGAAGGACTTAGAGAACTCTACAGAGAGCCAGAGAGTGGCTCTCAGAGAGAG 3063

QY 181 AGCCAGAAATGTCACCTGGGTTCTAGAAAGCAGGCTGAGGAGTCAATAGTGGGGA 240
DB 3064 AGCCAGAAATGTCACCTGGGTTCTAGAAAGCAGGCTGAGGAGTCAATAGTGGGGA 3123

QY 241 AAAATTGACCTGCACTCCGCTGACTGCGCAGAGAAATAGATGAGACCCCTTGAAGACT 300
DB 3124 AAAATTGACCTGCACTCCGCTGACTGCGCAGAGAAATAGATGAGACCCCTTGAAGACT 3183

QY 301 CCAGGAACCTTCAAGAGGCCAGGATGAGCTGGACCTCAAGCTGGCCCAAGCTGAGTGAT 360
DB 3184 CCAGGAACCTTCAAGAGGCCAGGATGAGCTGGACCTCAAGCTGGCCCAAGCTGAGTGAT 3243

QY 361 CRAGGATCCTGGCAGCCGCTGGGCGATCTCTGACTTCTGACTCTCTCCAAAGATCACTCGA 420
DB 3244 CRAGGATCCTGGCAGCCGCTGGGCGATCTCTGACTTCTGACTCTCTCCAAAGATCACTCGA 3303

QY 421 GAAAGTCAGGCACTTCAGAGAGAAATGCGCTCTGAAAGAGACGCTGAGCCAGCTCAA 480
DB 3304 GAAAGTCAGGCACTTCAGAGAGAAATGCGCTCTGAAAGAGACGCTGAGCCAGCTCAA 3363

QY 481 TGACCTTGCTGCCAGCTTACCACTTTGGGCATTCAGCTCTCAACGCTATACCTCAGAC 540
DB 3364 TGACCTTGCTGCCAGCTTACCACTTTGGGCATTCAGCTCTCAACGCTATACCTCAGAC 3423

QY 541 TCTGGAAGACCTTGAACACCAAGATGGAAGTTCTGAGGTGGCCCTCGAGGACCGAGTCAG 600
DB 3424 TCTGGAAGACCTTGAACACCAAGATGGAAGTTCTGAGGTGGCCCTCGAGGACCGAGTCAG 3483

QY 601 GCAGCTGCATGAGCCACAGGAGCTTGGTCCAGCATCTCAGCACTTCTTTTCCAGTC 660
DB 3484 GCAGCTGCATGAGCCACAGGAGCTTGGTCCAGCATCTCAGCACTTCTTTTCCAGTC 3543

QY 661 TGTCCAGGCTCCCTGGGAGAGGCCATCTCGCCAAACAAAGTGGCCCTACTATATCAACA 720
DB 3544 TGTCCAGGCTCCCTGGGAGAGGCCATCTCGCCAAACAAAGTGGCCCTACTATATCAACA 3603

Db 2907 CGACTTCCAGCAGTTCAGAGCAGACGATGTACATAGGGCCCTCAAGAGGGAATTGAA 2966
QY 61 AACTAAAGAACCTGTATCATAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCA 120
Db 2967 AACTAAAGAACCTGTATCATAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCA 3026
QY 121 GCCTTTGAAGGACTAGAGAACTCTACAGAGGCCAGAGAGCTCCCTCTGAGGAGAG 180
Db 3027 GCCTTTGAAGGACTAGAGAACTCTACAGAGGCCAGAGAGCTCCCTCTGAGGAGAG 3086
QY 181 AGCCAGAGATGTACTCGGCTCTACGAAAGCAGAGCTGAGAGGTCAATACTGAGTGGA 240
Db 3087 AGCCAGAGATGTACTCGGCTCTACGAAAGCAGAGCTGAGAGGTCAATACTGAGTGGA 3146
QY 241 AAAATTGAACCTGCACCTCGCTGACTGGCAGAGAAAATAGATGAGACCTTTGAAAGACT 300
Db 3147 AAAATTGAACCTGCACCTCGCTGACTGGCAGAGAAAATAGATGAGACCTTTGAAAGACT 3206
QY 301 CCAGAGACTTCAAGAGGCCACCGATGAGCTCAAGCTCGCCCAAGCTGAGGTGAT 360
Db 3207 CCAGAGACTTCAAGAGGCCACCGATGAGCTCAAGCTCGCCCAAGCTGAGGTGAT 3266
QY 361 CAGAGGATCTGGCAGCCCTGGGCGATCTCTCATTTGACTCTCTCCAGATCACCTCGA 420
Db 3267 CAGAGGATCTGGCAGCCCTGGGCGATCTCTCATTTGACTCTCTCCAGATCACCTCGA 3326
QY 421 GAAAGTCAAGCAGCTTCAGAGAGAAATTCGCGCTCTGAAAGAGAGCTGAGCCAGCTCAA 480
Db 3327 GAAAGTCAAGCAGCTTCAGAGAGAAATTCGCGCTCTGAAAGAGAGCTGAGCCAGCTCAA 3386
QY 481 TGACCTTCTCGCCAGCTTACCACTTTGGGCATTTAGCTCTCACCTGATAAAGCTCAGCAC 540
Db 3387 TGACCTTCTCGCCAGCTTACCACTTTGGGCATTTAGCTCTCACCTGATAAAGCTCAGCAC 3446
QY 541 TCTGAGAGACTGAGACACAGATGAGAGCTTCTGAGGTGGCGTGCAGAGCCGAGTGA 600
Db 3447 TCTGAGAGACTGAGACACAGATGAGAGCTTCTGAGGTGGCGTGCAGAGCCGAGTGA 3506
QY 601 GCAGCTGATGAAGCCACAGGAGCTTTGGTCCAGCATCTCAGCATCTTCTTTTCCAGCTC 660
Db 3507 GCAGCTGATGAAGCCACAGGAGCTTTGGTCCAGCATCTCAGCATCTTCTTTTCCAGCTC 3566
QY 661 TCTCAGGCTCCCTGGGAGAGAGCCATCTCGCCAAAGAGTGCCTTACTATATCAACCA 720
Db 3567 TCTCAGGCTCCCTGGGAGAGAGCCATCTCGCCAAAGAGTGCCTTACTATATCAACCA 3626
QY 721 CGAGACTCAACACACTTGTCTGGAGACCATCCCAAAATGACAGAGCTCTACCATCTTTAGC 780
Db 3627 CGAGACTCAACACACTTGTCTGGAGACCATCCCAAAATGACAGAGCTCTACCATCTTTAGC 3686
QY 781 TGACCTGAATATGTCTGATTTCTCAGCTTATAGGACTGCCATGAAGCTCCGAGAGACTGCA 840
Db 3687 TGACCTGAATATGTCTGATTTCTCAGCTTATAGGACTGCCATGAAGCTCCGAGAGACTGCA 3746
QY 841 GAAGCCCTTTGCTTGGATCTTTGAGCTGTACAGCTGTGATGCTTGGACCCAGCA 900
Db 3747 GAAGCCCTTTGCTTGGATCTTTGAGCTGTGATGCTTGGACCCAGCA 3806
QY 901 CAACTCTCAAGAAATGACAGCCCATGGATATCTCTCAGATATTAATTTGTTGACAC 960
Db 3807 CAACTCTCAAGAAATGACAGCCCATGGATATCTCTCAGATATTAATTTGTTGACAC 3866
QY 961 TATTTATGACCGCTGAGCAGAGCAGCAACAATTTGGTCAAGCTCCCTCTCTGGTGGA 1020
Db 3867 TATTTATGACCGCTGAGCAGAGCAGCAACAATTTGGTCAAGCTCCCTCTCTGGTGGA 3926
QY 1021 TATGTCTGAACTGGCTGTGATTTTATGATGGGACGACAAAGAGGAGGATCCGTGT 1080
Db 3927 TATGTCTGAACTGGCTGTGATTTTATGATGGGACGACAAAGAGGAGGATCCGTGT 3986
QY 1081 CTTGTCTTTTAAACTGGATCATTTTCCCTGTGTAAAGACATTTTGAAGACAAAGTACAG 1140
Db 3987 CTTGTCTTTTAAACTGGATCATTTTCCCTGTGTAAAGACATTTTGAAGACAAAGTACAG 4046

RESULT 12

US-09-845-416-28
; Sequence 28, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 28
; LENGTH: 4966
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-28

Query Match 100.0%; Score 1321; DB 12; Length 4966;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 CGACTTTCAGCAGTTCAGAGCAGACGATGTACATAGGGCCCTCAAGAGGGAATTGAA 60
Db 3025 CGACTTTCAGCAGTTCAGAGCAGACGATGTACATAGGGCCCTCAAGAGGGAATTGAA 3084
QY 61 AACTAAAGAACCTGTATCATAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCA 120
Db 3085 AACTAAAGAACCTGTATCATAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCA 3144
QY 121 GCCTTTGAAGGACTAGAGAACTCTACGAAAGCAGAGCTGAGAGGTCAATACTGAGTGGA 180
Db 3145 GCCTTTGAAGGACTAGAGAACTCTACGAAAGCAGAGCTGAGAGGTCAATACTGAGTGGA 3204
QY 181 AGCCAGAGATGTCACTCGGCTTCTACGAAAGCAGAGCTGAGAGGTCAATACTGAGTGGA 240
Db 3205 AGCCAGAGATGTCACTCGGCTTCTACGAAAGCAGAGCTGAGAGGTCAATACTGAGTGGA 3264
QY 241 AAAATTGAACCTGCACCTCCCTGACTGGCAGAGAAAATAGATGAGACCTTTGAAAGACT 300
Db 3265 AAAATTGAACCTGCACCTCCCTGACTGGCAGAGAAAATAGATGAGACCTTTGAAAGACT 3324
QY 301 CCAGAGACTTCAAGAGGCCACCGATGAGCTGAGCTCAAGCTGGCCCAAGCTGAGGTGAT 360
Db 3325 CCAGAGACTTCAAGAGGCCACCGATGAGCTGAGCTCAAGCTGGCCCAAGCTGAGGTGAT 3384
QY 361 CAGAGGATCTGGCAGCCCTGGGCGATCTCTCATTTGACTCTCTCCAGATCACCTCGA 420
Db 3385 CAGAGGATCTGGCAGCCCTGGGCGATCTCTCATTTGACTCTCTCCAGATCACCTCGA 3444
QY 421 GAAAGTCAAGCAGCTTCAGAGAGAAATTCGCGCTCTGAAAGAGAGCTGAGCCAGCTCAA 480

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Db 3445 GRAAGTCAGGACCTTCGAGAGAGAAATTCGGCTCTGAAGAGAGACCTGAGCCACGTCAA 3504
QY 481 TGACCTTGCTGCCAGCTTACCACTTTGGGCATTCAGCTCTCACCGTATTAACCTCAGAC 540
Db 3505 TGACCTTGCTGCCAGCTTACCACTTTGGGCATTCAGCTCTCACCGTATTAACCTCAGAC 3564
QY 541 TCTGGAAGACCTGAAACACAGATGGAAGCTTCTGAGCTGGCGCTGAGGACCGAGTCAG 600
Db 3565 TCTGGAAGACCTGAAACACAGATGGAAGCTTCTGAGCTGGCGCTGAGGACCGAGTCAG 3624
QY 601 GCAGCTGCATGAAGCCACAGGACCTTTGGTCCAGCATCTCAGACATCTTCTTCCACGTC 660
Db 3625 GCAGCTGCATGAAGCCACAGGACCTTTGGTCCAGCATCTCAGACATCTTCTTCCACGTC 3684
QY 661 TGTCCAGGCTCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCCTACTATATCAACCA 720
Db 3685 TGTCCAGGCTCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCCTACTATATCAACCA 3744
QY 721 CGAGACTCAAAACAACTTCTGGGACCATCCCAAAATGACAGCTCTTACCAGTCTTTAGC 780
Db 3745 CGAGACTCAAAACAACTTCTGGGACCATCCCAAAATGACAGCTCTTACCAGTCTTTAGC 3804
QY 781 TGACCTGAATATTCAGATTCAGCTTATAGGACTGCCATGAATATTCGAGACTGCA 840
Db 3805 TGACCTGAATATTCAGATTCAGCTTATAGGACTGCCATGAATATTCGAGACTGCA 3864
QY 841 GAAGGCCCTTGTGTGATCTCTGAGCTGTCACTGTCAGTCGATGATGTCCTTGAGCAGCA 900
Db 3865 GAAGGCCCTTGTGTGATCTCTGAGCTGTCACTGTCAGTCGATGATGTCCTTGAGCAGCA 3924
QY 901 CAACCTCAAGCAAAATGACAGCCCATGGATATCTCTGAGATTAATTAATTTGTGACAC 960
Db 3925 CAACCTCAAGCAAAATGACAGCCCATGGATATCTCTGAGATTAATTAATTTGTGACAC 3984
QY 961 TATTTATGACCGCTGGAGCAAGAGCAACAATTTGGTCAAGCTCCTCTGCGTGA 1020
Db 3985 TATTTATGACCGCTGGAGCAAGAGCAACAATTTGGTCAAGCTCCTCTGCGTGA 4044
QY 1021 TATGTGTGACACTGGCTGCTGAATGTTTATGATAGGAGGAGCAAGAGGAGATCCGTGT 1080
Db 4045 TATGTGTGACACTGGCTGCTGAATGTTTATGATAGGAGGAGCAAGAGGAGATCCGTGT 4104
QY 1081 CTTGCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAGCAACAAGTACAG 1140
Db 4105 CTTGCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAGCAACAAGTACAG 4164
QY 1141 ATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTGTGACAGCGAGGCTGGGCT 1200
Db 4165 ATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTGTGACAGCGAGGCTGGGCT 4224
QY 1201 CTTCTGATGATTCATCCAAATTCAGAGAGTGGGTGAGTTCATCTTGGGG 1260
Db 4225 CTTCTGATGATTCATCCAAATTCAGAGAGTGGGTGAGTTCATCTTGGGG 4284
QY 1261 CASTAACATTCAGCAAGTTCGCGAGCTCTTCCAAATTTGCTAATTAATTAAGCCAGAT 1320
Db 4285 CASTAACATTCAGCAAGTTCGCGAGCTCTTCCAAATTTGCTAATTAATTAAGCCAGAT 4344
QY 1321 C 1321
Db 4345 C 4345
```

RESULT 13

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US-09-845-416-34
; Sequence 34, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XINQ, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE OF INVENTION: THEREOF
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
```

```
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 4990
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-34
```

```
Query Match 100.08; Score 1321; DB 12; Length 4990;
Best Local Similarity 100.08; Pred. No. 0;
Matches 1321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGACTTTCCAGCAGTTTCAGAGCAGAACGATGTACATAGGGCCTTCAAGAGGAATTTGAA 60
Db 3049 CGACTTTCCAGCAGTTTCAGAGCAGAACGATGTACATAGGGCCTTCAAGAGGAATTTGAA 3108
QY 61 AACTAAGAACCTTAATCATATGATGATCTTTGAGACTGTACGAATATTTCTGACAGAGCA 120
Db 3109 AACTAAGAACCTTAATCATATGATGATCTTTGAGACTGTACGAATATTTCTGACAGAGCA 3168
QY 121 GCCTTTGGAGAGCTTAGAGAACTCTACCAAGAGCCCGCAGAGCTGCTCTGAGAGAG 180
Db 3169 GCCTTTGGAGAGCTTAGAGAACTCTACCAAGAGCCCGCAGAGCTGCTCTGAGAGAG 3228
QY 181 AGCCAGAAATGTCACCTCGGCTTTCTAGAAAGCAGAGGCTGAGGAGTCAATACTGAGTGG 240
Db 3229 AGCCAGAAATGTCACCTCGGCTTTCTAGAAAGCAGAGGCTGAGGAGTCAATACTGAGTGG 3288
QY 241 AATTTGAACCTGCACTCCGCTGACTGGGAGAGAAATATAGTAGACCCCTTGAAGACT 300
Db 3289 AATTTGAACCTGCACTCCGCTGACTGGGAGAGAAATATAGTAGACCCCTTGAAGACT 3348
QY 301 CCAGGAACTTCAAGAGGCCAGGATGAGTGGAGCTCAAGCTGCGCCAGCTGAGGTGAT 360
Db 3349 CCAGGAACTTCAAGAGGCCAGGATGAGTGGAGCTCAAGCTGCGCCAGCTGAGGTGAT 3408
QY 361 CAAGGATCCTGGCAGCCGCTGGGCGATCTCTCATATTGACTCTCTCCAAGATCACTCGA 420
Db 3409 CAAGGATCCTGGCAGCCGCTGGGCGATCTCTCATATTGACTCTCTCCAAGATCACTCGA 3468
QY 421 GAAGTCAGGACCTTCGAGAGAAATTTGGCTCTGAAAGAGAACGCTGAGCCACGTCGA 480
Db 3469 GAAGTCAGGACCTTCGAGAGAAATTTGGCTCTGAAAGAGAACGCTGAGCCACGTCGA 3528
QY 481 TGACCTTGCTGCCAGCTTACCCTTTGGGCATTCAGCTCTCACCGTATAACCTCAGAC 540
Db 3529 TGACCTTGCTGCCAGCTTACCCTTTGGGCATTCAGCTCTCACCGTATAACCTCAGAC 3588
QY 541 TCTGGAAGACCTTGAACACAGATGGAAGCTTGTGAGCTGGCGCTGAGGACCGAGTCAG 600
Db 3589 TCTGGAAGACCTTGAACACAGATGGAAGCTTGTGAGCTGGCGCTGAGGACCGAGTCAG 3648
QY 601 GCAGCTGCATGAAGCCACAGGACCTTTGGTCCAGCATCTCAGACATCTTCTTCCACGTC 660
Db 3649 GCAGCTGCATGAAGCCACAGGACCTTTGGTCCAGCATCTCAGACATCTTCTTCCACGTC 3708
QY 661 TGTCCAGGCTCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCCTACTATATCAACCA 720
Db 3709 TGTCCAGGCTCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCCTACTATATCAACCA 3768
QY 721 CGAGACTCAAAACAACTTGTCTGGGACCATCCCAAAATGACAGCTCTTACCAGTCTTTAGC 780
Db 3769 CGAGACTCAAAACAACTTGTCTGGGACCATCCCAAAATGACAGCTCTTACCAGTCTTTAGC 3828
QY 781 TGACCTGAATATTCAGATTCAGCTTATAGGACTGCCATGAATATTCGAGAGACTGCA 840
Db 3829 TGACCTGAATATTCAGATTCAGCTTATAGGACTGCCATGAATATTCGAGAGACTGCA 3888
QY 841 GAAGGCCCTTGTGTGATCTCTGAGCTGTCACTGTCAGTGTATGCTTGGACAGCA 900
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Db 4379 CAGTACATGCGCAGAGTGTCCGAGAGCTGCTTCCATTTCTTAATTAAGCCAGAGAT 4438
QY 1321 C 1321
Db 4439 C 4439

RESULT 15
US-09-845-416-27
; Sequence 27, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 27
; LENGTH: 5149
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-27

Query Match 100.0%; Score 1321; DB 12; Length 5149;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1321; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGACTTTCAGCAGTTCAGAGCAGAACGATGATAGAGGCTTCAGAGGGAATTGAA 60
Db 3208 CGACTTTCAGCAGTTCAGAGCAGAACGATGATAGAGGCTTCAGAGGGAATTGAA 3267

QY 61 AACTAAGAACTGTAATCATGACTACTCTTGAGACTGTAGAAATTTCTGACAGACA 120
Db 3268 AACTAAGAACTGTAATCATGACTACTCTTGAGACTGTAGAAATTTCTGACAGACA 3327

QY 121 GCCTTTGGAGAGCTAGAGAACTCTACAGAGGCCAGAGAGCTGCTCTCAGGAGAG 180
Db 3328 GCCTTTGGAGAGCTAGAGAACTCTACAGAGGCCAGAGAGCTGCTCTCAGGAGAG 3387

QY 181 AGCCAGAAATGTAATCTGCTGCTTCTAGAAAGCAGGCTGAGGAGTCAATACTGAGTGGA 240
Db 3388 AGCCAGAAATGTAATCTGCTGCTTCTAGAAAGCAGGCTGAGGAGTCAATACTGAGTGGA 3447

QY 241 ARAATTGAACCTGCACTCCGCTGACTGGCAGAGAAATNGATGAGACCCCTTCAAGAGCT 300
Db 3448 ARAATTGAACCTGCACTCCGCTGACTGGCAGAGAAATNGATGAGACCCCTTCAAGAGCT 3507

QY 301 CCAGGAACCTCAAGAGGCCAGGATGAGCTGAGCTCAAGCTGGGCCCAAGCTGAGTGAT 360
Db 3508 CCAGGAACCTCAAGAGGCCAGGATGAGCTGAGCTGAGCTGAGCTGAGCTGAGTGAT 3567

QY 361 CAAGGAGTCTCTGGCAGCCCGTGGCGGATCTCTCAATGACTCTCTCAAGATCAACCTCGA 420
Db 3568 CAAGGAGTCTCTGGCAGCCCGTGGCGGATCTCTCAATGACTCTCTCAAGATCAACCTCGA 3627

QY 421 GAAAGTCAAGGCACATTCGAGAGAAATTTGGCTCTGAAAGAGACGCTGAGCCACCTCAA 480
Db 3628 GAAAGTCAAGGCACATTCGAGAGAAATTTGGCTCTGAAAGAGACGCTGAGCCACCTCAA 3687

QY 481 TGACCTTGCTGCCAGCTTAACCTTTGGGCAATTCAGCTCTCACCGTATAACCTCAGCAC 540
Db 3688 TGACCTTGCTGCCAGCTTAACCTTTGGGCAATTCAGCTCTCACCGTATAACCTCAGCAC 3747

QY 541 TCTGGAGACCTGTAACACAGATGGAAGCTTTGCGAGTGGCCGCTGCGAGGACCGAGTCAG 600
Db 3748 TCTGGAGACCTGTAACACAGATGGAAGCTTTGCGAGTGGCCGCTGCGAGGACCGAGTCAG 3807

QY 601 GCAGCTGCATGAAGCCACAGGAGCTTTGGTCCAGCACTCAGCACTTTCTTCCACGTC 660

Db 3808 GCAGCTGCATGAAGCCACAGGAGCTTTGGTCCAGCATCTCAGCACTTTCTTTCACGTC 3867
QY 661 TGTCCAGGCTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTTACTATATCAACCA 720
Db 3868 TGTCCAGGCTCCCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTTACTATATCAACCA 3927

QY 721 CGAGACTCAAAACAATTTGCTGGGAGCACCATCCAAATATGACAGAGCTTACAGCTTTTACG 780
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QY 841 GAAGGCCCTTTGCTGGGATCTCTTGAGCCTGTGACGCTGCATGTGATGCTTGGACACGCA 900
Db 4048 GAAGGCCCTTTGCTGGGATCTCTTGAGCCTGTGACGCTGCATGTGATGCTTGGACACGCA 4107

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QY 1261 CAGTAAACATGAGCAAGTGTCCGAGAGCTGCTTCCAAATTTGCTAATTAAGCCAGAGAT 1320
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QY 1321 C 1321
Db 4528 C 4528

Search completed: September 24, 2003, 11:52:00
Job time : 310.721 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: September 23, 2003, 21:08:50 ; Search time 112.947 Seconds
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7976.007 Million cell updates/sec

Title: US-09-845-416-12_COPY_960_3000

Perfect score: 2041
Sequence: 1 tcttcacagcattggaag.....ttotgatgatttatccaa 2041

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	1328.8	65.1	5952	4 US-09-687-875A-1	Sequence 1, Appli
2	1317.8	64.6	13977	4 US-09-484-970B-60	Sequence 60, Appli
3	1149.6	56.3	19307	3 US-08-836-022A-10	Sequence 10, Appli
4	1149.6	56.3	19307	3 US-09-427-048A-10	Sequence 10, Appli
5	547.4	26.8	6045	4 US-09-091-501B-7	Sequence 7, Appli
6	547.4	26.8	10320	4 US-09-091-501B-9	Sequence 9, Appli
7	79.4	3.9	200	4 US-09-091-501B-5	Sequence 5, Appli
8	78.6	3.9	200	4 US-09-091-501B-4	Sequence 4, Appli
9	76.6	3.8	7218	1 US-08-232-463-14	Sequence 6, Appli
10	76.6	3.8	7218	1 US-08-232-463-14	Sequence 14, Appli
11	44.2	2.2	2574	4 US-09-668-313A-10	Sequence 10, Appli
12	44.2	2.2	1230025	4 US-09-198-452A-1	Sequence 1, Appli
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14	42.8	2.1	1690	4 US-09-620-312D-69	Sequence 69, Appli
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16	40.4	2.0	2223	1 US-08-257-073-4	Sequence 4, Appli
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18	38.6	1.9	1995	1 US-08-425-069-3	Sequence 3, Appli
19	38.6	1.9	1995	2 US-08-317-844B-3	Sequence 3, Appli
20	38.4	1.9	7672	4 US-09-320-132-24	Sequence 24, Appli
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22	38.2	1.9	1131	6 5180810-3	Patent No. 5180810
23	38.2	1.9	1784	6 5180810-2	Patent No. 5180810
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25	38	1.9	1394	4 US-09-247-155-76	Sequence 76, Appli
26	36.8	1.8	1886	6 5210183-1	Patent No. 5210183
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45	34.8	1.7	1453	4 US-08-714-741-33	Sequence 33, Appli

ALIGNMENTS

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; Sequence 1, Application US/09687875A
; Patent No. 6544786
; GENERAL INFORMATION:
; APPLICANT: Xiao, Paul
; TITLE OF INVENTION: METHOD AND VECTOR FOR PRODUCING AND TRANSFERRING TRANS-SPICE
; FILE REFERENCE: 00792
; CURRENT APPLICATION NUMBER: US/09/687,875A
; PRIOR FILING DATE: 2000-10-13
; CURRENT FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: 60/158,868
; PRIOR FILING DATE: 1999-10-15
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: Patent version 3.1
; SEQ ID NO 1
; LENGTH: 5952
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (2897)..(2898)
; OTHER INFORMATION: S4 junction site
; NAME/KEY: misc_feature
; LOCATION: (3198)..(3199)
; OTHER INFORMATION: S2 junction site
US-09-687-875A-1

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Best Local Similarity 99.5%; Pred. No. 0;
Matches 1333; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

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QY	942	CTTTGAGAGGACTAGAGAACTCTACCAGAGCCAGAGACTGCTCTCTCAGAGAGAG	1001

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QY 1842 TGTGCTCAACTGCTGCTGAATGTTTATGATGAGGAGAGAGAGAGAGAGAGAGAGAGAG 1901
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QY 1902 TGTCTTTTAAACTGGCATCTTCCCTGTGTAAAGACATTTGGAGACAAAGTACAGAT 1961
Db 4896 TGTCTTTTAAACTGGCATCTTCCCTGTGTAAAGACATTTGGAGACAAAGTACAGAT 4837
QY 1962 ACCTTTTCAAGAGTGGAGTCAACAGATTTTGTGACGAGGAGGCTGGGCTCC 2021
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QY 2022 TCTGATGATTTCTATCAA 2041
Db 4776 TCTGATGATTTCTATCAA 4757

RESULT 4

US-09-427-048A-10/c
; Sequence 10, Application US/09427048A
; Patent No. 6203975

GENERAL INFORMATION:

APPLICANT: Trustees of the University of Pennsylvania
Wilson, James M.
Fisher, Krishna J.
Chen, Shu-Jen

Weitzman, Matthew

TITLE OF INVENTION: Improved Adenovirus Virus and

Methods of Use Thereof

NUMBER OF SEQUENCES: 10

CORRESPONDENCE ADDRESS:

ADDRESS: Howson and Howson

STREET: Spring House Corporate Cntr, P O Box 457

CITY: Spring House

STATE: Pennsylvania

COUNTRY: USA

ZIP: 19477

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/427,048A
FILING DATE: 21-Oct-1999
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/836,022
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Bak, Mary E.
REGISTRATION NUMBER: 31,215
REFERENCE/DOCKET NUMBER: GNPEN.008PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 215-540-9200
TELEFAX: 215-540-5818
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 19307 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: unknown
MOLECULE TYPE: cDNA
SEQUENCE DESCRIPTION: SEQ ID NO: 10:
US-09-427-048A-10

Query Match 56.38; Score 1149.6; DB 3; Length 19307;

Best Local Similarity 91.16; Pred. No. 0;

Matches 1221; Conservative 0; Mismatches 119; Indels 0; Gaps 0;

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Db 4836 ACCTTTTCAAGCAAGTGGAGTCAAGTGGCTTTTGTGACAGCGAGTGGGCTCC 4777
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Db 4776 TTCTGATGATTTATACAA 4757
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; Sequence 7, Application US/09091501B
; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: Tinsley, Jonathon M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Utrrophin gene expression
; FILE REFERENCE: 620-42
; CURRENT FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: US/09/091.501B
; PRIOR FILING DATE: 1996-12-19
; PRIOR APPLICATION NUMBER: GB 9615797.9
; PRIOR FILING DATE: 1996-07-26
; PRIOR APPLICATION NUMBER: GB 9622174.2
; PRIOR FILING DATE: 1996-10-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 6045
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; NAME/KEY: CDS
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; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Chimeric
; NAME/KEY: misc_feature
; LOCATION: (724)..(758)
; OTHER INFORMATION: Precise residue is left open
US-09-091-501B-7
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Query Match 26.8%; Score 547.4; DB 4; Length 6045;
Best Local Similarity 61.4%; Pred. No. 1e-158;
Matches 900; Conservative 0; Mismatches 556; Indels 9; Gaps 1;
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Db 3870 CCGTGGGAAATGGCTGGAAGCCGCTGGGAGCTTACTCATTTGACTCGCTGAGGATCACA 3929
QY 1236 TCAGAGAAAGTCAAGGCACTTCGAGGAGAAATTTGCCCTCTGAAAGAGAGCTGAGCCAG 1295
Db 3930 TTGAAAAATCATGGCAATTTAGAGAAATTTGCACCAATCACTTTTAAAGTTAAAGCG 3989
QY 1296 TCAATGACCTTCTCGCAGCTTACCCTTTGGGCAATTCAGCTCTCACCGTATAACCTCA 1355
Db 3990 TGATGATTTATCCAGTCACTGTCTCCACTTGAGCTGCATCCCTCTCTTAAGATGCTCTC 4049
QY 1356 GCATCTTGAAGACCTGGAACACAGATGGAAGCTTCTCAGAGTGGCGCTGAGAGCCGAG 1415
Db 4050 GCCAGCTAGATGACCTTAAATATGATGAGGAACTTTTACAGGTTTCTGTGGATGATCGCC 4109
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QY 1476 CGTCTGTCAGGGTCCCTGGGAGAGAGCCATCTCCGCAACAAAGAGTCCCTACTATATCA 1535
DB 8445 CGTCAAGTCCAGCTCCCTGGCAAGATCCATTTCATATAAAGAGTCCCTATATATCA 8504
QY 1536 ACCAGAGAGACTCAAAACAACTGTGGGAGCCATCCCAAAATGACAGAGCTCTACAGCTCT 1595
DB 8505 ACCATCAACACAGACACCACTGTGGGACCATCCCAAAATGACAGAGCTCTACAGCTCT 8564
QY 1596 TAGCTGACCTGAATAATGTGAGATCTCAGCTTATAGGAGTCCGCAATGAACTCCGAAGAC 1655
DB 8565 TTGCTGACCTGAATAATGTGAGATCTCAGCTTATAGGAGTCCGCAATGAACTCCGAAGAC 8624
QY 1656 TGCAGAGGCCCTTTGCTGGATCTCTTGGAGCTGTGAGCTGTGAGCTGTGAGCTGTGAGC 1715
DB 8625 TACAAAAGCACTATGTTGGATCTCTTGGATCTCTTGGATCTCTTGGATCTCTTGGATCT 8684
QY 1716 AGCACAACCTCAAGCAAAATGACAGCCCATGGATCTCTGAGATTAATTAATTTGTGA 1775
DB 8685 AGCACAAGTGAACCAAAATGACAGCTCTCTGAGTTCAGATGTCACTCACTGCTGA 8744
QY 1776 CCACATATTATGACCGCTGGAGCAAGAGACACAATAATTTGGTCAAGCTCCCTCTGTGG 1835
DB 8745 CAACAACTATGATGGACTTGAGCAAAATGACAAAGACCTGTGCAAGCTTCCACTCTGG 8804
QY 1836 TGGATATGCTGCTGACTGCTGCTGAATGTTATGATACGGGACGAGAGGAGATCC 1895
DB 8805 TTGATATGCTGCTGACTGCTGCTGAATGTTATGATACGGGACGAGAGGAGATCC 8864
QY 1896 GTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1955
DB 8865 GAGTCAGAGCTGAGATTTGATTTGATTTGATTTGATTTGATTTGATTTGATTTGATTTGAT 8924
QY 1956 ACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGGATTTTGTGACAGCGCAGCTGG 2015
DB 8925 ACAGATATCTTTTCAAGCAAGTGGCAAGTTCACAGGATTTTGTGACAGCGCAGCTGG 8984
QY 2016 GCTCTCTCTGATGATCTATCCA 2040
DB 8985 GCCTGTACTGATGATGCCATCCA 9009

RESULT 7

US-09-091-501B-5

; Sequence 5, Application US/09091501B

; Patent No. 6518413

; GENERAL INFORMATION:

; APPLICANT: Tinsley, Jonathon M

; APPLICANT: Davies, Kay E

; TITLE OF INVENTION: Utrophin gene expression

; FILE REFERENCE: 620-42

; CURRENT APPLICATION NUMBER: US/09/091,501B

; PRIOR FILING DATE: 1998-06-18

; PRIOR FILING DATE: 1996-12-19

; PRIOR FILING DATE: 1996-12-19

; PRIOR FILING DATE: 1996-12-19

; PRIOR FILING DATE: 1996-07-26

; PRIOR FILING DATE: 1996-10-24

; NUMBER OF SEQ ID NOS: 15

; SOFTWARE: Patentin Ver. 2.1

; SEQ ID NO 5

; LENGTH: 200

; TYPE: DNA

; ORGANISM: Rattus sp.

US-09-091-501B-5

Query Match

Best Local Similarity 64.3%; Pred. No. 1.1e-14;

Matches 119; Conservative 0; Mismatches 66; Indels 0; Gaps 0;

QY 505 CCTAAACCCCAAGTACACACATAGGTGCTTCAAGAAATCTAGAACACAGACAGT 564

DB 16 CCTGCAAAACCTGCTTGAAGAACATAAAAGTTGCAAAAGTACCTGCAAGCTGAGCAGST 75
QY 565 CAGGGTCAATCTCTCACTCACTGATGATGATGATGATGATGATGATGATGATGATGATGATG 624
DB 76 GAAGTGAATTCCTTAATCTAATGATGATGATGATGATGATGATGATGATGATGATGATG 135
QY 625 AACTGCTGCTTTGGGAAGAACAACTTAAGTATTTGGGAGATCATGAGCAACATCTGTAG 684
DB 136 CACAGCTGTTTGGGAAGATCAGTTACAGAACTGAGCTGAGCTGAGCTGAGCTGATGCCG 195
QY 585 ATGGA 689
DB 196 CTGGA 200

RESULT 8

US-09-091-501B-4

; Sequence 4, Application US/09091501B

; Patent No. 6518413

; GENERAL INFORMATION:

; APPLICANT: Tinsley, Jonathon M

; APPLICANT: Davies, Kay E

; TITLE OF INVENTION: Utrophin gene expression

; FILE REFERENCE: 620-42

; CURRENT APPLICATION NUMBER: US/09/091,501B

; PRIOR FILING DATE: 1998-06-18

; PRIOR FILING DATE: 1996-12-19

; PRIOR FILING DATE: 1996-12-19

; PRIOR FILING DATE: 1996-07-26

; PRIOR FILING DATE: 1996-10-24

; NUMBER OF SEQ ID NOS: 15

; SOFTWARE: Patentin Ver. 2.1

; SEQ ID NO 4

; LENGTH: 200

; TYPE: DNA

; ORGANISM: Mus sp.

US-09-091-501B-4

Query Match

Best Local Similarity 62.4%; Pred. No. 1.9e-14;

Matches 123; Conservative 0; Mismatches 74; Indels 0; Gaps 0;

QY 493 TGATCTTTGAAGACCTTAAACCCCAAGTACACACATAGGTGCTTCAAGAAATCTAGA 552
DB 4 TGACCTGCCCTCCCTGCAGAGCTGCTTCAAGAAACATAAAAGTTGCAAAATGACCTTGA 63

QY 553 ACAAGAACAAAGTCAGGCTCAATCTCTCACTCACATGGTGGTGGTGGTGGTGGTGGTGGTGG 612
DB 64 AGCTGACAGGTGAAGTAAATCTTAACTCACTGATGATGATGATGATGATGATGATGATGAT 123

QY 613 TGGAGATCACCAACTGCTGCTTTGGGAAGAACAACTTAAGTATTTGGGAGATCATGATGGGC 672
DB 124 TGGGAGAGTGCACAGCTCTTCTTGAAGATCAGTTACAGAACTGGGTGAGCGCTGGAC 183

QY 673 AAACATCTCTAGATGGA 689
DB 184 AGCTGATGCCGCTGGA 200

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US-09-091-501B-6

; Sequence 6, Application US/09091501B

; Patent No. 6518413

; GENERAL INFORMATION:

; APPLICANT: Tinsley, Jonathon M

; APPLICANT: Davies, Kay E

; TITLE OF INVENTION: Utrophin gene expression

; FILE REFERENCE: 620-42

; REGISTRATION NUMBER: 29,768

Query Match	2.2%	Score 44.2	DB 4	Length 2374
Best Local Similarity	54.7%	Pred. No. 0.0048		
Matches 88: Conservative		0: Mismatches 73	Indels 0	

Query Match 2.2%; Score 44; DB 4; Length 1230025;
Best Local Similarity 53.5%; Pred. No. 0.34;

Query Match 2.1%; Score 43.4; DB 4; Length 1179;
Best Local Similarity 50.7%; pred. No. 0.005;

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Search completed: September 24, 2003, 00:00:53
Job time : 115.113 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: September 23, 2003, 23:43:25 ; Search time 472.352 Seconds
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Perfect score: 2041

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Gapop 10.0 , Gapext 1.0

Searched: 1678620 seqs, 1244745471 residues

Total number of hits satisfying chosen parameters: 3357240

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Maximum DB seq length: 2000000000

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Maximum Match 100%

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- 16: /cgn2.6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
- 17: /cgn2.6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Match	Score	Length	DB ID	Description
1	2041	100.0	3510	12	US-09-845-416-12
2	2041	100.0	4476	12	US-09-845-416-31
3	1690.8	82.8	3531	12	US-09-845-416-10
4	1690.8	82.8	4498	12	US-09-845-416-30
5	1683	82.5	3858	12	US-09-845-416-9
6	1683	82.5	4825	12	US-09-845-416-29
7	1683	82.5	4848	12	US-09-845-416-35
8	1683	82.5	5060	12	US-09-845-416-36
9	1581	77.5	4414	12	US-09-845-416-32
10	1569	76.9	3446	12	US-09-845-416-14
11	1542	75.6	3999	12	US-09-845-416-6
12	1542	75.6	4966	12	US-09-845-416-28
13	1542	75.6	4990	12	US-09-845-416-34
14	1359	66.6	4182	12	US-09-845-416-2
15	1359	66.6	5149	12	US-09-845-416-27
16	1328.8	65.1	2169	12	US-09-845-416-4

17	1328.8	65.1	11058	12	US-09-845-416-1	Sequence 1, Appli
18	1328.8	65.1	13957	10	US-09-782-378A-22	Sequence 22, Appl
19	1328.8	65.1	13957	10	US-09-880-107-2284	Sequence 2284, Ap
20	1324	64.9	1821	12	US-09-845-416-13	Sequence 13, Appl
21	937	45.9	1434	12	US-09-845-416-15	Sequence 15, Appl
22	725.4	35.5	1991	12	US-09-845-416-3	Sequence 3, Appli
23	717	35.1	1667	12	US-09-845-416-7	Sequence 7, Appli
24	547.4	26.8	10302	10	US-09-782-378A-23	Sequence 23, Appl
25	538.6	26.4	16531	12	US-10-101-510-667	Sequence 667, App
26	390	19.1	1340	12	US-09-845-416-11	Sequence 11, Appl
27	190.2	9.3	256	9	US-09-864-761-21956	Sequence 21956, A
28	177	8.7	466	9	US-09-864-761-6092	Sequence 6092, Ap
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30	151	7.4	151	9	US-09-864-761-27715	Sequence 27715, A
31	83.6	4.1	517	13	US-10-027-632-88865	Sequence 88865, A
32	65.4	3.2	3987	14	US-10-198-846-12468	Sequence 12468, A
33	65.4	3.2	9274	10	US-09-885-535-3	Sequence 3, Appli
34	43	2.1	436	10	US-09-960-352-10742	Sequence 10742, A
35	42.8	2.1	1690	14	US-10-037-270-69	Sequence 69, Appl
36	42.6	2.1	449	11	US-09-918-995-24084	Sequence 24084, A
37	42.6	2.1	2247	10	US-09-960-253-157	Sequence 157, App
38	42.2	2.1	423	9	US-09-864-761-18355	Sequence 18355, A
39	41.8	2.0	440	14	US-10-184-644-442	Sequence 442, App
40	41.8	2.0	440	14	US-10-184-634-442	Sequence 442, App
41	41.8	2.0	592	13	US-10-027-632-304596	Sequence 304596, A
42	41.8	2.0	18529	14	US-10-198-846-12599	Sequence 12599, A
43	41	2.0	6455	12	US-10-017-161-963	Sequence 963, App
44	40.6	2.0	425	10	US-09-960-352-4010	Sequence 4010, Ap
45	40.6	2.0	747	12	US-10-140-472-212	Sequence 212, App

ALIGNMENTS

RESULT 1

US-09-845-416-12
; Sequence 12, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: D81142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-845-416-12

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Best Local Similarity	100.0%	Pred. No.	0				
Matches	2041	Conservative	0	Mismatches	0	Indels	0
Gaps	0						
QY	1	TCCCTTCACAGCATTGGAGCTCCTCGAAGCAAGTCATTGGCAGTCATTGGATGGAGAG	60				
Db	960	TCCCTTCACAGCATTGGAGCTCCTCGAAGCAAGTCATTGGCAGTCATTGGATGGAGAG	1019				
QY	61	TGAAGTAACCTGGACCGTTATCAACAGCTTTAGAGAGTATTATCGTGGCTTTCTTC	120				
Db	1020	TGAAGTAACCTGGACCGTTATCAACAGCTTTAGAGAGTATTATCGTGGCTTTCTTC	1079				
QY	121	TGCTGAGCACATTCGACGACAGAGATTTCTATGATGTGGAAGTGTGGAAGA	180				
Db	1080	TGCTGAGCACATTCGACGACAGAGATTTCTATGATGTGGAAGTGTGGAAGA	1139				
QY	181	CCAGTTTCATCTCATGAGGGGTACATGATGGATTTCACAGCCCATCAGGCGGGTTGG	240				

Db 1140 CCAGTTTCATCTCAIGAGGGGTACATGATGGATTGACACCCATCAGGGCCGGGTTGG 1199
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Db 1200 TAATAATCTACAAATTTGGGAAGTAAGCTGATTTGGAACAGCAAAATTAATFACAGAAGTAAGA 1259
QY 301 AACTGAAGTACAGAGCAGATGATCTCTCTAAATTCAGATGGAATGGAATGCTCAGGGTAGC 360
Db 1260 AACTGAAGTACAGAGCAGATGATCTCTCTAAATTCAGATGGAATGGAATGCTCAGGGTAGC 1319
QY 361 TAGCATGAAAAACAACAAATTTACATAGAGTTTAAATGGATCTCCAGAAATCAGAAAT 420
Db 1320 TASCATGGAHAACAACAGCATTTACATAGATTTTAAATGGATCTCCAGAAATCAGAAAT 1379
QY 421 GAAAGAGTTGAATGCTGGCTTACAAAACAGAGAAGAAACAAGAAATGGAAGAAAGA 480
Db 1380 GAAAGAGTTGAATGCTGGCTTACAAAACAGAGAAGAAACAAGAAATGGAAGAAAGA 1439
QY 481 GCCTCTTGACCTGATCTTGAAGACCTAAAGCGCAAGTACAAACAATAGGTGCTTCA 540
Db 1440 GCCTCTTGACCTGATCTTGAAGACCTTAAAGCGCAAGTACAAACAATAGGTGCTTCA 1499
QY 541 AGAAGATCTAGAACAGACAGATCAAGGTCAATTTCTCTCACTCAGATGGTGGTGGTAGT 600
Db 1500 AGAAGATCTAGAACAGACAGATCAAGGTCAATTTCTCTCACTCAGATGGTGGTGGTAGT 1559
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QY 721 TTCTGACAGTGGAGAGCTCTGACACCTTTCTCTGAGGAACCTTCTGCTGGTGGTGGTAGT 780
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QY 781 GAAAGATGATGAATTAAGCGGACAGGACCTATTTGAGGCGACCTTCCAGCAGCTTCAGAA 840
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QY 841 GCAGAACGATGTACATAGGCGCTTCAAGAGGGAATTTGAAACTAAAGAACTGCTAATCAT 900
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Db 1860 GAGTACTCTTGAGACTGTAGCAATATTTCTGACAGAGCAGCCTTTGGAAGGACTAGAGAA 1919
QY 961 ACTCTACAGGAGGCCAGAGCTGCTCTGAGGAGAGAGCCAGATGCTCACTCGGT 1020
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Db 2400 GGACTTTGGTCCAGCATCTCAGCACTTTCTTTCCAGCTCTCTCCAGGTCCTCGGAGAG 2459
QY 1501 AGCCATCTCGCCAAACAAAGTGCCTACTATATCAACACAGAGACTCAACAACTGCTG 1560
Db 2460 AGCCATCTCGCCAAACAAAGTGCCTACTATATCAACACAGAGACTCAACAACTGCTG 2519
QY 1561 GGACCATCCAAAATGACAGAGCTTACCAGCTTTTAGCTGACCTGAATTAATGTCAGATT 1620
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QY 1741 GCCATGATATCTCTGAGATTAATTAATTTTGACCACTATTTATGACGCTGGAGCA 1800
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Db 2760 AGAGCACACAAATTTGGTCAAGCTCCCTCTCTGCTGGATATGCTGACTGGCTGCT 2819
QY 1861 GAATGTTTATGATACGGGAGCAAGAGGATCCGCTGCTCTTTTAAACTGGCAT 1920
Db 2820 GAATGTTTATGATACGGGAGCAAGAGGATCCGCTGCTCTTTTAAACTGGCAT 2879
QY 1921 CATTTCCCTGTGTAAGACATTTGGGAAGCAAGTACAGATACCTTTTCAAGCAAGTGGC 1980
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QY 1981 AAGTTCAACAGATTTTGGACAGCGCAGGCTGGGCTCTCTGCTGATCTATATCA 2040
Db 2940 AAGTTCAACAGATTTTGGACAGCGCAGGCTGGGCTCTCTGCTGATCTATATCA 2999
QY 2041 A 2041
Db 3000 A 3000

RESULT 2

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; Sequence 31, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE OF INVENTION: THEREOF
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 31
; LENGTH: 4476
; TYPE: DNA
; ORGANISM: Homo sapiens

US-09-845-416-31

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Matches 2041; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
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QY	61	TGAAGTAAACCTGGACCTTATCAACAGCTTTAGAGAGATTAATATCGTGGCTCTTTC	120
Db	1776	TGAAGTAAACCTGGACCTTATCAACAGCTTTAGAGAGATTAATATCGTGGCTCTTTC	1835
QY	121	TGCTGAGGACACATTTGACGACAAAGGAGAGATTTCTAATGATGTGGAGTGTGAAAGA	180
Db	1836	TGCTGAGGACACATTTGACGACAAAGGAGAGATTTCTAATGATGTGGAGTGTGAAAGA	1895
QY	181	CCAGTTTCATCTCATGAGGGGTACATGATGGATTTGACAGCCCATCAGGCCCGGTTGG	240
Db	1896	CCAGTTTCATCTCATGAGGGGTACATGATGGATTTGACAGCCCATCAGGCCCGGTTGG	1955
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Db	1956	TAAATTTCTAATTTGGGAAGTAAAGCTGATTGGAACAGGAAATTTATCAGAAAGATGAAGA	2015
QY	301	AACGTGAAGTCAAGAGCAGATGAATCTCCCTAAATTCAGATGGGAATGCCCTCAGGGTAGC	360
Db	2016	AACGTGAAGTCAAGAGCAGATGAATCTCCCTAAATTCAGATGGGAATGCCCTCAGGGTAGC	2075
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QY	421	GAAGAGTTGAATGACTGTCTAACAAACACAGAGAAAGAACAGGAAATTTGAGGAGAA	480
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QY	481	GCCTTTGGACCTGTATGAGACCTTAACAGCCCAAGTACAAACAAATTAAGGTGCTTCA	540
Db	2196	GCCTTTGGACCTGTATGAGACCTTAACAGCCCAAGTACAAACAAATTAAGGTGCTTCA	2255
QY	541	AGAGATCTAGAACAAAGCAAGTCAAGGTCAATTTCTCACTCACTGATGGTGGTGGT	600
Db	2256	AGAGATCTAGAACAAAGCAAGTCAAGGTCAATTTCTCACTCACTGATGGTGGTGGT	2315
QY	601	TGATGAATCTAGTGGAGATCAGCAACTGTCTGTGGTGGTGGTGGTGGTGGTGGTGGT	660
Db	2316	TGATGAATCTAGTGGAGATCAGCAACTGTCTGTGGTGGTGGTGGTGGTGGTGGTGGT	2375
QY	661	AGATCGATGGCAACATCTGATGATGACAGAGACCGCTGGGTCTTTTACAGACAG	720
Db	2376	AGATCGATGGCAACATCTGATGATGACAGAGACCGCTGGGTCTTTTACAGACAG	2435
QY	721	TTCTGACCACTGGAAGCGTCTGACCTTTCTCTGACGAACTTCTGGTGTGGCTTACAGCT	780
Db	2436	TTCTGACCACTGGAAGCGTCTGACCTTTCTCTGACGAACTTCTGGTGTGGCTTACAGCT	2495
QY	781	GAAAGATGATGAATTAAGCCGACGACCTATTTGAGAGCGACTTTCCAGCAGTTTCAGAA	840
Db	2496	GAAAGATGATGAATTAAGCCGACGACCTATTTGAGAGCGACTTTCCAGCAGTTTCAGAA	2555
QY	841	CCAGAGCATGATACATAGGCGCTTCAAGAGGAATTTGAAACTTAAGAACCTGTAATCAT	900
Db	2556	CCAGAGCATGATACATAGGCGCTTCAAGAGGAATTTGAAACTTAAGAACCTGTAATCAT	2615
QY	901	GAGTACTCTTGAGACTGTACGAATATTTCTGACAGACAGCCCTTTGGAGGACTAGAGAA	960
Db	2616	GAGTACTCTTGAGACTGTACGAATATTTCTGACAGACAGCCCTTTGGAGGACTAGAGAA	2675
QY	961	ACTCTACAGAGCCAGAGACTGCCCTCTCTGAGGAGAGAGCCAGATGTCACTCGGCT	1020
Db	2676	ACTCTACAGAGCCAGAGACTGCCCTCTCTGAGGAGAGAGCCAGATGTCACTCGGCT	2735

QY	1021	TCCTACGAAAGCAGGCTGAGGAGTCAATACTAGTGGGAAAAATTTGAACTGCACCTCCGC	1080
Db	2736	TCCTACGAAAGCAGGCTGAGGAGTCAATACTAGTGGGAAAAATTTGAACTGCACCTCCGC	2795
QY	1081	TGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACTTCAAGAGGCCAC	1140
Db	2796	TGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGGAACTTCAAGAGGCCAC	2855
QY	1141	GGATGAGCTGGACCTCAAGCTGCCCAAGCTGAGGTGATCAAGGAGTCTCTGGCAGCCCT	1200
Db	2856	GGATGAGCTGGACCTCAAGCTGCCCAAGCTGAGGTGATCAAGGAGTCTCTGGCAGCCCT	2915
QY	1201	GGGCGATCTCCTCATGACTCTCTCCAAAGATCACCCTCGAGAAAGTCAAGGACTTCGAGG	1260
Db	2916	GGGCGATCTCCTCATGACTCTCTCCAAAGATCACCCTCGAGAAAGTCAAGGACTTCGAGG	2975
QY	1261	AGAAATTCGCGCTCTGAAAGAGAACGTGAGCCAGCTCAATGACCTTCTGCCAGCTTAC	1320
Db	2976	AGAAATTCGCGCTCTGAAAGAGAACGTGAGCCAGCTCAATGACCTTCTGCCAGCTTAC	3035
QY	1321	CACCTTTGGGCAATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCTGAAACACAG	1380
Db	3036	CACCTTTGGGCAATTCAGCTCTCACCGTATAACCTCAGCACTCTGGAAGACCTGAAACACAG	3095
QY	1381	ATGGAAGCTTCGAGGTGGCCGCTCGAGGACCGAGTCAAGGAGCTGCAAGGCCACAG	1440
Db	3096	ATGGAAGCTTCGAGGTGGCCGCTCGAGGACCGAGTCAAGGAGCTGCAAGGCCACAG	3155
QY	1441	GGACTTTGGTCAGCATCTCAGCACTTTCTTCCAGCTCTGCCAGGCTCCCTGGGAGAG	1500
Db	3156	GGACTTTGGTCAGCATCTCAGCACTTTCTTCCAGCTCTGCCAGGCTCCCTGGGAGAG	3215
QY	1501	AGCCATCTGCGCAACAAAGTGCCTTACTATATCAACACGAGAGCTCAACAACTTGCCTG	1560
Db	3216	AGCCATCTGCGCAACAAAGTGCCTTACTATATCAACACGAGAGCTCAACAACTTGCCTG	3275
QY	1561	GGACCATCTCCAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGATATATGTCAGATT	1620
Db	3276	GGACCATCTCCAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGATATATGTCAGATT	3335
QY	1621	CTCAGCTTATAGGACTGCGCAACTCCGAGACTGCAAGAGGCTTTGCTTGGATCT	1680
Db	3336	CTCAGCTTATAGGACTGCGCAACTCCGAGACTGCAAGAGGCTTTGCTTGGATCT	3395
QY	1681	CTTGAGCTCTCAGCTGCAATGTGATGCGCTTGGACGAGCAGCAACCTCAAGCAGAAATGACCA	1740
Db	3396	CTTGAGCTCTCAGCTGCAATGTGATGCGCTTGGACGAGCAGCAACCTCAAGCAGAAATGACCA	3455
QY	1741	GCCCATGATATCTCGAGATTATTAATTTGACCACTATTTATGACGCTTGGAGCA	1800
Db	3456	GCCCATGATATCTCGAGATTATTAATTTGACCACTATTTATGACGCTTGGAGCA	3515
QY	1801	AGAGCAGCAACATTTGGTCAAGCTCCCTCTCTCGCTGGATATGCTCTGAACCTGGCTGCT	1860
Db	3516	AGAGCAGCAACATTTGGTCAAGCTCCCTCTCTCGCTGGATATGCTCTGAACCTGGCTGCT	3575
QY	1861	GAATGTTTATGATACGGGAGCAACAGAGGAGTCCCTGCTCTTTTAAACTGGCAT	1920
Db	3576	GAATGTTTATGATACGGGAGCAACAGAGGAGTCCCTGCTCTTTTAAACTGGCAT	3635
QY	1921	CATTTCCCTCTGTAAGACATTTTGGAGACAAAGTACAGTACCTTTTCAAGCAAGTGGC	1980
Db	3636	CATTTCCCTCTGTAAGACATTTTGGAGACAAAGTACAGTACCTTTTCAAGCAAGTGGC	3695
QY	1981	AAGTTCAACAGGATTTTGTGACGAGCGAGCTGGGCTCTCTTCGATGATTTATCCA	2040
Db	3696	AAGTTCAACAGGATTTTGTGACGAGCGAGCTGGGCTCTCTTCGATGATTTATCCA	3755
QY	2041	A 2041	
Db	3756	A 3756	

RESULT 3
US-09-845-416-10
; Sequence 10, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DEL1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 10
; LENGTH: 3531
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-10

Query Match 82.8%; Score 1690.8; DB 12; Length 3531;
Best Local Similarity 89.9%; Pred. No. 0;
Matches 1854; Conservative 0; Mismatches 187; Indels 21; Gaps 3;

QY	1	TCCTTCACAGCATTTGGAGCTCCTGACACACAGTCATTGGCAGTTCATTGATGGAGG	60
DB	960	TCCTTCACAGCATTTGGAGCTCCTGACACACAGTCATTGGCAGTTCATTGATGGAGG	1019
QY	61	TGAAGTAAACCTGGACCGCTTATCAACACAGCTTTAGAAGATATTATPCTGGCTTCTTTC	120
DB	1020	TGAAGTAAACCTGGACCGCTTATCAACACAGCTTTAGAAGATATTATPCTGGCTTCTTTC	1079
QY	121	TGCTGAGGACATTTGACACACAGAGAGATTTCTAATGATGGAGTGGTGAAGA	180
DB	1080	TGCTGAGGACATTTGACACACAGAGAGATTTCTAATGATGGAGTGGTGAAGA	1139
QY	181	CCAGTTTCACTACTGATGAGGGTACATGATGATTTGACCCATGACCCATGAGGCGGGTGG	240
DB	1140	CCAGTTTCACTACTGATGAGGGTACATGATGATTTGACCCATGAGGCGGGTGG	1199
QY	241	TAATATTCAAAATGGGAAGTAAAGCTGATTTGGAACAGGAAATTTATCAAGATCAAGA	300
DB	1200	TAATATTCAAAATGGGAAGTAAAGCTGATTTGGAACAGGAAATTTATCAAGATCAAGA	1259
QY	301	AACTGAGTACAGAGCAGATGATCTCTTAAATTCAGATGGGATGCTCAGGGTAGC	360
DB	1260	AACTGAGTACAGAGCAGATGATCTCTTAAATTCAGATGGGATGCTCAGGGTAGC	1319
QY	361	TAGCATGGAACAAACAGCAATTTACATAGATT-----TTAATGGATCTCCAGAATCA	414
DB	1320	TAGCATGGAACAAACAGCAATTTACATAGATT-----TTAATGGATCTCCAGAATCA	1379
QY	415	GAACTGAAAGAGTTGAATGACTGGCTTAACAAAAACAGAAAGAACAGAGAAATGGA	474
DB	1380	GAACTGAAAGAGTTGAATGACTGGCTTAACAAAAACAGAAAGAACAGAGAAATGGA	1439
QY	475	GGAAGAGCTCTTGGACCTGATCTTGAAGACCTTAAAGCCAGTACACACATCAAGT	534
DB	1440	GGAAGAGCTCTTGGACCTGATCTTGAAGACCTTAAAGCCAGTACACACATCAAGT	1499
QY	535	GCTTCAAGAGATCTAGAACAGCAAGTCAGGGTCAATTCCTCACTCACTCACTGGTGT	594
DB	1500	ACAATGGCAGACCTCCAGGTGAATTTGAAGCTCACAGATGTTTATCAACACCTGGA	1559
QY	595	GGTAGTGTATGA-----ATCTAGTGGAGATCACGCAACTGCTGCTTTGGAAGA	642
DB	1560	TGAAAAACAGCCAAAAATCTCTGAGATCCCTGGAAGGTTCCGATGATGAGTCTCTGTACA	1619
QY	643	AACTTTAAGG---TATTTGGAGATCGATGGGCAACATCTGTAGATGGACAGAGACGG	699
DB	1620	AACTTTAAGG---TATTTGGAGATCGATGGGCAACATCTGTAGATGGACAGAGACGG	1679

QY	700	CTGGGTTCCTTTTACAAGACAGCTTCTGACCACTGGAAGCGTCTGCACCTTCTCTGACAGA	759
DB	1680	TAGTCCCATTTTGAAGCCAGTCTTCTGACCACTGGAAGCGTCTGCACCTTCTCTGACAGA	1739
QY	760	ACTTCTGGTGTGGCTACAGCTGAAAGATGATGAATTAAGCCCGCAGCAGCTATTATGGAG	819
DB	1740	ACTTCTGGTGTGGCTACAGCTGAAAGATGATGAATTAAGCCCGCAGCAGCTATTATGGAG	1799
QY	820	CGACTTTCAGCAGTTTCAGAGCAGAACGATGTACATAGGCGCTTCAAGAGGAATGAA	879
DB	1800	CGACTTTCAGCAGTTTCAGAGCAGAACGATGTACATAGGCGCTTCAAGAGGAATGAA	1859
QY	880	AACATAAGAACCTGTATATCATGAGTACTCTTCAGACTGTACGAATATTTCTGCACAGCA	939
DB	1860	AACATAAGAACCTGTATATCATGAGTACTCTTCAGACTGTACGAATATTTCTGCACAGCA	1919
QY	940	GCCTTTTGAAGGACTTAGAGAACTCTACCAAGGAGCCACAGAGAGCTGCTCCTCGAGAGAG	999
DB	1920	GCCTTTTGAAGGACTTAGAGAACTCTACCAAGGAGCCACAGAGAGCTGCTCCTCGAGAGAG	1979
QY	1000	AGCCCGAGATGTCAGTCCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATATCTGAGTGA	1059
DB	1980	AGCCCGAGATGTCAGTCCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATATCTGAGTGA	2039
QY	1060	AAATTTGAACCTGTCACCTCCGCTGACTGGCAGAGAAATATAGATGAGACCTTGAAGACT	1119
DB	2040	AAATTTGAACCTGTCACCTCCGCTGACTGGCAGAGAAATATAGATGAGACCTTGAAGACT	2099
QY	1120	CCAGGAACCTTCAAGAGGCCAGGATGAGTGGACCTCAAGCTGCGCCAAAGCTGAGTGTAT	1179
DB	2100	CCAGGAACCTTCAAGAGGCCAGGATGAGTGGACCTCAAGCTGCGCCAAAGCTGAGTGTAT	2159
QY	1180	CAGGAGATCCTGGCAGCCGCTGGGCGATCTCTCATTTGACTCTCTCCAAATCACCTCGA	1239
DB	2160	CAGGAGATCCTGGCAGCCGCTGGGCGATCTCTCATTTGACTCTCTCCAAATCACCTCGA	2219
QY	1240	GAAAGTCAAGGACCTTCGAGGAGAGAAATTTGGCTCTGAAAGAGAACTGAGCCACCTCAA	1299
DB	2220	GAAAGTCAAGGACCTTCGAGGAGAGAAATTTGGCTCTGAAAGAGAACTGAGCCACCTCAA	2279
QY	1300	TGACCTTGTCTCGCAGCTTACCACTTTGGGCATTCAGCTCTCACCGTATTAACCTCAGCAC	1359
DB	2280	TGACCTTGTCTCGCAGCTTACCACTTTGGGCATTCAGCTCTCACCGTATTAACCTCAGCAC	2339
QY	1360	TCGGAAGACCTTGAAACACAGATGGAAGCTTCTGCAAGTGGCCGCTCGAGGACCGAGTCAG	1419
DB	2340	TCGGAAGACCTTGAAACACAGATGGAAGCTTCTGCAAGTGGCCGCTCGAGGACCGAGTCAG	2399
QY	1420	GCAGCTTGCATGAAGCCACAGGACCTTTGGTCCAGCATCTCAGACATCTCTTTCCACGTC	1479
DB	2400	GCAGCTTGCATGAAGCCACAGGACCTTTGGTCCAGCATCTCAGACATCTCTTTCCACGTC	2459
QY	1480	TGTCAGGCTCCCTGGGAGAGCCATCTCGCCAAACAAAGTGGCTTACTATATCAACCA	1539
DB	2460	TGTCAGGCTCCCTGGGAGAGCCATCTCGCCAAACAAAGTGGCTTACTATATCAACCA	2519
QY	1540	CGAGCTCACAACACTTCTGGGAGCCATCCAAATGACAGAGCTTACAGCTCTTTAGC	1599
DB	2520	CGAGCTCACAACACTTCTGGGAGCCATCCAAATGACAGAGCTTACAGCTCTTTAGC	2579
QY	1600	TGACCTTGAATATGTCAGATCTTCACTTATAGGACTGCCATGAACCTCCGAGAGCTGCA	1659
DB	2580	TGACCTTGAATATGTCAGATCTTCACTTATAGGACTGCCATGAACCTCCGAGAGCTGCA	2639
QY	1660	GAGGCGCTTCTGCTGGATCTTGTAGCCTGTCAGCTGCATGTATGATGCTGGACCAAGCA	1719
DB	2640	GAGGCGCTTCTGCTGGATCTTGTAGCCTGTCAGCTGCATGTATGATGCTGGACCAAGCA	2699
QY	1720	CAACCTCAAGCAAAATGACCAAGCCCATGGATATCTGCAATATTAATTTGTTGACAC	1779
DB	2700	CAACCTCAAGCAAAATGACCAAGCCCATGGATATCTGCAATATTAATTTGTTGACAC	2759

QY 1780 TATTATGACCGCTGGAGCAGGACACACATTTGGTCACGCTCCCTCTCTCGCTGGA 1839
|||||
Db 2760 TATTATGACCGCTGGAGCAGGACACACATTTGGTCACGCTCCCTCTCTCGCTGGA 2819
|||||
QY 1840 TAGTGCTCTGAAGTGGCTGCTGAATGTTTATGATACGGGAGGAGGAGGATCGTCT 1899
|||||
Db 2820 TAGTGCTCTGAAGTGGCTGCTGAATGTTTATGATACGGGAGGAGGATCGTCT 2879
|||||
QY 1900 CTGTGCTTTAAACTGGCAATCAATCCCTGTGTAAGACACATTTGGAAGACAAATGAC 1959
|||||
Db 2880 CTGTGCTTTAAACTGGCAATCAATCCCTGTGTAAGACACATTTGGAAGACAAATGAC 2939
|||||
QY 1960 ATACCTTTTCAGCAGAGTGGCAATCAATCCCTGTGTAAGACACATTTGGAAGACAAATGAC 1959
|||||
Db 2940 ATACCTTTTCAGCAGAGTGGCAATCAATCCCTGTGTAAGACACATTTGGAAGACAAATGAC 2999
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QY 2020 CCTCTGCGATGATTCATCCAA 2041
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Db 3000 CCTCTGCGATGATTCATCCAA 3021
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RESULT 4
US-09-845-416-30
; Sequence 30, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIHAO, XIHAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 30
; LENGTH: 4498
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-30
Query Match 82.8%; Score 1690.8; DB 12; Length 4498;
Best Local Similarity 89.9%; Pred. No. 0; Mismatches 187; Indels 21; Gaps 3;
Matches 1854; Conservative 0;
QY 1 TCCTTCACAGCAATTTGGAAGCTCCTGAAGCAAGTCAATTTGGCAGATTCATTGATGGAGAG 60
|||||
Db 1717 TCCTTCACAGCAATTTGGAAGCTCCTGAAGCAAGTCAATTTGGCAGATTCATTGATGGAGAG 1776
|||||
QY 61 TGAAGTAAACCTGGACCGTTATCAACAGCTTTAGAGAGATTAATTCGTGGCTTTCTTC 120
|||||
Db 1777 TGAAGTAAACCTGGACCGTTATCAACAGCTTTAGAGAGATTAATTCGTGGCTTTCTTC 1836
|||||
QY 121 TGCTGAGGACACATTTGAAGCAGACAGAGAGATTTCTAATGATGTGAAGTGTGGAAGA 180
|||||
Db 1837 TGCTGAGGACACATTTGAAGCAGACAGAGAGATTTCTAATGATGTGAAGTGTGGAAGA 1896
|||||
QY 181 CCAGTTTCATACATGAGGGGTACATGATGATTTGACGCCCATCAGGCCCGGGTTGG 240
|||||
Db 1897 CCAGTTTCATACATGAGGGGTACATGATGATTTGACGCCCATCAGGCCCGGGTTGG 1956
|||||
QY 241 TAAATTCACAAATTTGGAAGTAAAGCTGATTTGAAGAGAGAAATATCAGAAGATGAAGA 300
|||||
Db 1957 TAAATTCACAAATTTGGAAGTAAAGCTGATTTGAAGAGAGAAATATCAGAAGATGAAGA 2016
|||||
QY 301 AACTGAAGTACAGAGAGATGATCTCTTAATTTCAAGTGGGAATGCCCTCAGGGTAGC 360
|||||
Db 2017 AACTGAAGTACAGAGAGATGATCTCTTAATTTCAAGTGGGAATGCCCTCAGGGTAGC 2076
|||||
QY 361 TAGCATGGAAAAACAACCAATTTACATAGAGTT-----TTAATGGATCTCCAGAAATCA 414
|||||
Db 2077 TAGCATGGAAAAACAACCAATTTACATAGAGTT-----TTAATGGATCTCCAGAAATCA 2136
|||||

QY 415 GAAACTGAAAGAGTTGAATGACTGGCTAAACAAAAACAGAAAGAAACACAGAAATGGA 474
|||||
Db 2137 GGACCTGGAAAGTTTCTTGCTGGCTTACAGAGCTGAAACAACTGCCATGTCTCTACA 2196
|||||
QY 475 GGAAGAGCCTCTTTGGACCTGATCTTTGAAGACCTTAAACGCCCAAGTACAAACAAATAGGT 534
|||||
Db 2197 GGAATGATCCCTTAAGGAAAGGCTCTCTAGAGACTCCAAGGGGTAAGAGAGCTGATGA 2256
|||||
QY 535 GCTTCAAGAGATCTAGAACAAAGTCAAGGTCATTTCTCTCACTACATGTGTGT 594
|||||
Db 2257 ACATGCGCAGACCTCCAGAGTGAATTTGAAGCTCACAGATGTTTATCAACAACTGGA 2316
|||||
QY 595 GGTAGTGTATGA-----ATCTAGTGGAGATCACGCAACTGCTGTGTTGGAAGA 642
|||||
Db 2317 TGAACACAGCAAAAAATCTCTGAGATCCCTGGAAGGTTCCGATGATGAGCTCTGTTTACA 2376
|||||
QY 643 ACAACTTAAGG---TATTGGGAGATCGATGGGCAACACTCTGTAGATGGACAGAGACCG 699
|||||
Db 2377 AGACGCTTTGGATAACATGAATTTCAAGTGGAGTGAACCTCGGAAAGAGTCTCTCAACAT 2436
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QY 700 CTGGGTTCTTTTACAAGACAGTCTCTGACAGTGAAGAGCTCTGCACCTTTCTCTGCAGGA 759
|||||
Db 2437 TAGTCCCATTTGGAAGCCAGTCTCTGACAGTGAAGAGCTCTGCACCTTTCTCTGCAGGA 2496
|||||
QY 760 ACTTCTGGTGTGGCTTACAGCTGAAGATGATGAATTTAAGCGGCGAGGCACTATTGGAGG 819
|||||
Db 2497 ACTTCTGGTGTGGCTTACAGCTGAAGATGATGAATTTAAGCGGCGAGGCACTATTGGAGG 2556
|||||
QY 820 CGACTTTCCAGCAGTTCAAGAGCAGACGATGATGATGATGATGATGATGATGATGATGAT 879
|||||
Db 2557 CGACTTTCCAGCAGTTCAAGAGCAGACGATGATGATGATGATGATGATGATGATGATGAT 2616
|||||
QY 880 AACTAAAGAACCTGTAATCATGATGATGATGATGATGATGATGATGATGATGATGATGAT 939
|||||
Db 2617 AACTAAAGAACCTGTAATCATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2676
|||||
QY 940 GCCTTTGGAAGGACTAGAGAACTCTACCAGAGAGCCAGAGAGCTGCTCTCTGAGGAGAG 999
|||||
Db 2677 GCCTTTGGAAGGACTAGAGAACTCTACCAGAGAGCCAGAGAGCTGCTCTCTGAGGAGAG 2736
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QY 1000 AGCCCGAATCTCACTCGGCTTCTACAAAGCAGGCTGAGGAGTCTATCTGAGTGGGA 1059
|||||
Db 2737 AGCCCGAATCTCACTCGGCTTCTACAAAGCAGGCTGAGGAGTCTATCTGAGTGGGA 2796
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QY 1060 AAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTTGAAAGACT 1119
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Db 2797 AAAATTGAACCTGCACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTTGAAAGACT 2856
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QY 1120 CCAGGAACTTCAAGAGGCCACGGATGAGCTGGAACCTCAAGCTGCGCCAGCTGAGTGTAT 1179
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Db 2857 CCAGGAACTTCAAGAGGCCACGGATGAGCTGGAACCTCAAGCTGCGCCAGCTGAGTGTAT 2916
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QY 1180 CAAGGAACTTCAAGAGGCCACGGATGAGCTGGAACCTCAAGCTGCGCCAGCTGAGTGTAT 1239
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Db 2917 CAAGGAACTTCAAGAGGCCACGGATGAGCTGGAACCTCAAGCTGCGCCAGCTGAGTGTAT 2976
|||||
QY 1240 GAAAGTCAAGGCACTTCGAGGAGAAATTTGGCCTCTGAAAGAGAACCTGAGCCACCTCAA 1299
|||||
Db 2977 GAAAGTCAAGGCACTTCGAGGAGAAATTTGGCCTCTGAAAGAGAACCTGAGCCACCTCAA 3036
|||||
QY 1300 TGACCTTGTCTGCCAGCTTACACTTTGGGCAATGAGCTCTCACCGTATACCTTCAGACAC 1359
|||||
Db 3037 TGACCTTGTCTGCCAGCTTACACTTTGGGCAATGAGCTCTCACCGTATACCTTCAGACAC 3096
|||||
QY 1360 TCTGGAGACCTTGAACACCAAGATGAGCTTCTGCAAGTGGCCCTTCAGAGGACCGAGTCTAG 1419
|||||
Db 3097 TCTGGAGACCTTGAACACCAAGATGAGCTTCTGCAAGTGGCCCTTCAGAGGACCGAGTCTAG 3156
|||||
QY 1420 GCAGCTGCAATGAAGCCACAGGAGCTTTGGTCCAGCATCTCAGCACTTTCTTTCCAGCTC 1479
|||||
Db 3157 GCAGCTGCAATGAAGCCACAGGAGCTTTGGTCCAGCATCTCAGCACTTTCTTTCCAGCTC 3216
|||||

QY 1480 TGTCCAGGTCCTCTGGGAGAGCCATCTGCACAAACAAAGTGCCTACTATATCAACCA 1539
DB 3217 TGTCCAGGTCCTCTGGGAGAGCCATCTGCACAAACAAAGTGCCTACTATATCAACCA 3276
QY 1540 CGAGACTCAAAACACTTGTCTGGGACCATCCCAAAATGACAGAGCTCTACAGCTCTTAGC 1599
DB 3277 CGAGACTCAAAACACTTGTCTGGGACCATCCCAAAATGACAGAGCTCTACAGCTCTTAGC 3336
QY 1600 TGACCTGAATTAATGTCAGATCTCAGATCTATAGAGTGCATGAAACTCCGAAGACTGCA 1659
DB 3337 TGACCTGAATTAATGTCAGATCTCAGATCTATAGAGTGCATGAAACTCCGAAGACTGCA 3396
QY 1660 GAAGCCCTTTGCTTGGATCTCTGAGCCTGTGAGCTGCATGATGCTTGGACCGCA 1719
DB 3397 GAAGCCCTTTGCTTGGATCTCTGAGCCTGTGAGCTGCATGATGCTTGGACCGCA 3456
QY 1720 CAACCTCAAGCAAAATGACAGCCATGATGATCTGAGATTAATTAATTTGATGACAC 1779
DB 3457 CAACCTCAAGCAAAATGACAGCCATGATGATCTGAGATTAATTAATTTGATGACAC 3516
QY 1780 TATTTATGACCGCTGAGCAGACAGACACAATTTGTCACAGTCCCTCTCTGGTGGA 1839
DB 3517 TATTTATGACCGCTGAGCAGACAGACACAATTTGTCACAGTCCCTCTCTGGTGGA 3576
QY 1840 TATGTCTGAACTGCTGCTGAATGTTTATGATACGGGACGACAGGAGGATCCGT 1899
DB 3577 TATGTCTGAACTGCTGCTGAATGTTTATGATACGGGACGACAGGAGGATCCGT 3636
QY 1900 CTTGCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAAGTACAG 1959
DB 3637 CTTGCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAAGACAAGTACAG 3696
QY 1960 ATACCTTTTCAAGCAAGTGCATGTCACAGGATTTTGCACCGCAGCTGGGCT 2019
DB 3697 ATACCTTTTCAAGCAAGTGCATGTCACAGGATTTTGCACCGCAGCTGGGCT 3756
QY 2020 CTTCTGATGATCTATCCAA 2041
DB 3757 CTTCTGATGATCTATCCAA 3778

RESULT 5

US-09-845-416-9
; Sequence 9, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 3858
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-9

Query Match 82.5%; Score 1683; DB 12; Length 3858;
Best Local Similarity 85.4%; Pred. No. 0;
Matches 2041; Conservative 0; Mismatches 0; Indels 348; Gaps 1;
QY 1 TCTTTCACAGCATTTGGAAGCTCCTGAAGACAAAGTCATTGGCGAGTTCATTGATGGAGAG 60
DB 960 TCTTTCACAGCATTTGGAAGCTCCTGAAGACAAAGTCATTGGCGAGTTCATTGATGGAGAG 1019
QY 61 TGAAGTAAACCTGGACCGTTTATCAAAACAGCTTTAGAGAGATTAATTCGTGCTCTTTC 120
DB 1020 TGAAGTAAACCTGGACCGTTTATCAAAACAGCTTTAGAGAGATTAATTCGTGCTCTTTC 1079

QY 121 TCTCGAGACACATTCGACACACAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 180
DB 1080 TCTCGAGACACATTCGACACACAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 1139
QY 181 CCAGTTTTCATCTCATGAGGGTACATGATGATGATTTGACAGCCCATCAGGCCCGGGTTGG 240
DB 1140 CCAGTTTTCATCTCATGAGGGTACATGATGATTTGACAGCCCATCAGGCCCGGGTTGG 1199
QY 241 TAATATTCTACAATTTGGAGTAAGCTGATTTGGACACAGGAAAATTTATCAGAAGATGAAGA 300
DB 1200 TAATATTCTACAATTTGGAGTAAGCTGATTTGGACACAGGAAAATTTATCAGAAGATGAAGA 1259
QY 301 ACTGAACTACAGACAGAGATGATCTCTAAATTCAGATGGGAATGCTCAGGGTAGC 360
DB 1260 AACTGAAGTACAGACAGAGATGATCTCTAAATTCAGATGGGAATGCTCAGGGTAGC 1319
QY 361 TAGCATGAAAACAAAAGCAATTTACATAGAGTTTAAATGATCTCCAGAATCAGAAACT 420
DB 1320 TAGCATGAAAACAAAAGCAATTTACATAGAGTTTAAATGATCTCCAGAATCAGAAACT 1379
QY 421 GAAAGAGTTGAATGACTGGCTAAACAAAACAGAAAGAACAAAGGAAAATTTGGAGGAAGA 480
DB 1380 GAAAGAGTTGAATGACTGGCTAAACAAAACAGAAAGAACAAAGGAAAATTTGGAGGAAGA 1439
QY 481 GCCTCTTGGACCTGATCTTGAAGACCTAAAGCCCAAGTACACACATAGAGTCTTCA 540
DB 1440 GCCTCTTGGACCTGATCTTGAAGACCTAAAGCCCAAGTACACACATAGAGTCTTCA 1499
QY 541 AGAAGATCTAGAACACAAAGCAAGTCAAGGTCAATTTCTCTCCTCAGTCACTGCTGGTGTAGT 600
DB 1500 AGAAGATCTAGAACACAAAGCAAGTCAAGGTCAATTTCTCTCCTCAGTCACTGCTGGTGTAGT 1559
QY 601 TGATGAATCTAGTGGAGATCACGCAACTGCTCTTTTGAAGAACAACTTAAAGTATTGGG 660
DB 1560 TGATGAATCTAGTGGAGATCACGCAACTGCTCTTTTGAAGAACAACTTAAAGTATTGGG 1619
QY 661 AGATGATGGCAACACATCTGTAGATGGACAGAGCCGCTGGGTCTTTTACAGA --- 717
DB 1620 AGATGATGGCAACACATCTGTAGATGGACAGAGCCGCTGGGTCTTTTACAGAAGAC 1679
QY 718 ----- 717
DB 1680 TCATAGATTACTGCAACAGTTCCTCCCTGGACCTGGAAAGTTTCTTCTGCTGGCTTACAGA 1739
QY 718 ----- 717
DB 1740 AGCTGAAACAACTGCCAATCTCTACAGGATGCTACCGTAAGGAAGGCTCTCTAGAAGA 1799
QY 718 ----- 717
DB 1800 CTCGAGGGAGTAAAGAGCTGATGAACAAATGGCAAGACCTCCAGGTGAATTAAGC 1859
QY 718 ----- 717
DB 1860 TCACACAGATCTTTATCAACAACTGGATGAAACACAGCCAAAAAATCTGAGATCCTCGA 1919
QY 718 ----- 717
DB 1920 AGSTTCGATGATGACGCTCTGTTACAAAAGACGTTTGGATAACATGAACTTCAAGTGGAG 1979
QY 718 -----CAGTTCTGACCAGTG 732
DB 1980 TGAATTCGAAAAAAGTCTCTCAACATTTAGTCCCATTTTGAAGCCAGCTTGCAGCCAGTG 2039
QY 733 GAAGGCTGTCACCTTTCTCTGACGAGCACTCTGCTGGCTACAGCTGAAAGATGATGA 792
DB 2040 GAAGGCTGTCACCTTTCTCTGACGAGCACTCTGCTGGCTACAGCTGAAGATGATGA 2099
QY 793 ATTAAGCCGCGAGCACCTATTGGAGCGCACTTCCAGCAAGTTCCAGCAAGTTCAGAGCAAGATGT 852
DB 2100 ATTAAGCCGCGAGCACCTATTGGAGCGCACTTCCAGCAAGTTCAGAGCAAGATGT 2159

Db 3900 TTGTGTCAGCTCCCTCTCTGCGTGGATATGTCTGAACTGGCTGCTGAATGTTTATGA 3959
QY 1873 TACGGGACGAACAGGAGGATCCGTGTCCTGCTCTTTTAAACTGGGATCAATTCCTCTGTG 1932
Db 3960 TACGGGACGAACAGGAGGATCCGTGTCCTGCTCTTTTAAACTGGGATCAATTCCTCTGTG 4019
QY 1933 TAAACACATTTTGAAGACAAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAACAGG 1992
Db 4020 TAAACACATTTTGAAGACAAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTTCAACAGG 4079
QY 1993 ATTTTGTGACCGCAGGCTGGGCTCTCTGCTGATGATTCATCCAA 2041
Db 4080 ATTTTGTGACCGCAGGCTGGGCTCTCTGCTGATGATTCATCCAA 4128

RESULT 8
US-09-845-416-36
; Sequence 36, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE OF INVENTION: THEREOF
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 36
; LENGTH: 5060
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-36

Query Match 82.5%; Score 1683; DB 12; Length 5060;
Best Local Similarity 85.4%; Pred. No. 0;
Matches 2041; Conservative 0; Mismatches 0; Indels 348; Gaps 1;

QY 1 TCCTTCACAGCATTTGGAAGCTCCTGAAGACAAAGTCATTGGCAGTTCATTGATGGAGAG 60
Db 1952 TCCTTCACAGCATTTGGAAGCTCCTGAAGACAAAGTCATTGGCAGTTCATTGATGGAGAG 2011
QY 61 TGAAGTAAACCTGGACCGTTCATCAACACGCTTGAAGAAAGTATTCGTGCTTCTTC 120
Db 2012 TGAAGTAAACCTGGACCGTTCATCAACACGCTTGAAGAAAGTATTCGTGCTTCTTC 2071
QY 121 TGTGAGGACACATTGCAAGCAACAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 180
Db 2072 TGTGAGGACACATTGCAAGCAACAGGAGAGATTTCTAATGATGTGGAAGTGGTGAAGA 2131
QY 181 CAGTTTCTACTCATGAGGGTACATGATGATGATTTGACAGCCCATCAGGGCCGGTGG 240
Db 2132 CAGTTTCTACTCATGAGGGTACATGATGATGATTTGACAGCCCATCAGGGCCGGTGG 2191
QY 241 TAAATATTCAAAATGGGAAGTAAAGCTGATTGGAACAGGAAATTTATCAGAGATGAAGA 300
Db 2192 TAAATATTCAAAATGGGAAGTAAAGCTGATTGGAACAGGAAATTTATCAGAGATGAAGA 2251
QY 301 ACTGAGTACAGAGCAGATGAATCTCTAAATTCAGATGGGAATGCTCAGGGTAGC 360
Db 2252 AACTGAAGTACAGAGCAGATGAATCTCTAAATTCAGATGGGAATGCTCAGGGTAGC 2311
QY 361 TAGCATGGAAGAAACAGCAATTTACATAGATTTTATGATCTCCAGATTCAGAAACT 420
Db 2312 TAGCATGGAAGAAACAGCAATTTACATAGATTTTATGATCTCCAGATTCAGAAACT 2371
QY 421 GAAAGAGTTGATGACTGGCTTACAAAACAGAAAGACAGGAAATGAGGAAGA 480
Db 2372 GAAAGAGTTGATGACTGGCTTACAAAACAGAAAGACAGGAAATGAGGAAGA 2431
QY 481 GCCTCTTGGACCTGATCTTGAAGACCTTAAAGCCCAAGTACACAAACATAAGTGCTTCA 540

Db 2432 GCCTCTTGGACCTGATCTTGAAGACCTTAAACGCCAAGTACACACATAAGGTCCTTCA 2491
QY 541 AGAAGATCTAGAACAAGAAACAAAGTCAAGGTCAATTCCTCCTCCTCCTCCTCCTCCTCCT 600
Db 2492 AGAAGATCTAGAACAAGAAACAAAGTCAAGGTCAATTCCTCCTCCTCCTCCTCCTCCTCCT 2551
QY 601 TCATGAATCTAGTGGAGATCAGCAACTGCTGCTTTTGAAGAAACAACTTAAAGGTATTGGG 660
Db 2552 TCATGAATCTAGTGGAGATCAGCAACTGCTGCTTTTGAAGAAACAACTTAAAGGTATTGGG 2611
QY 661 AGATCGATGGGCAACAACTCTAGATGGACAGAAAGCCGCTGGGTTCTTTTACAAGA --- 717
Db 2612 AGATCGATGGGCAACAACTCTAGATGGACAGAAAGCCGCTGGGTTCTTTTACAAGA --- 2671
QY 718 ----- 717
Db 2672 TCATAGATTACTGCAACAGTTCCCTCGACCTGAAAAAGTTTCTTCTGCTGGCTTACAGA 2731
QY 718 ----- 717
Db 2732 AGCTGAAACAACACTCCCAATGCTCTACAGATGCTACCCGTAAGAAAGAGCTCCTAGAAGA 2791
QY 718 ----- 717
Db 2792 CTCGAAGGAGTAAAGAGAGCTGATGAACAATGCAAGACCTCCAAAGTGAATTTGAAGC 2851
QY 718 ----- 717
Db 2852 TCACACAGATGTTTATCACAACCTGATGATGAACAGCCAAAAAATCCTGAGATCCTCGA 2911
QY 718 ----- 717
Db 2912 AGTTCCGATGATGACAGCTCTGTTACAAAGACGTTTGGATAACATGAATTTCAAGTGGAG 2971
QY 718 -----CAGTTCTGACCAAGTG 732
Db 2972 TGAACCTTCGAAAAAGTCTCTCAACATTAGGTCCCATTTTGGAAAGCCAGTTCTGACCAAGT 3031
QY 733 GAAGCGTCTGACACCTTTCTCTGACAGAACTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 792
Db 3032 GAAGCGTCTGACACCTTTCTCTGACAGAACTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 3091
QY 793 ATTAAGCCGCGCAGGACACTATTGGAGCGACCTTCCAGCAGTTTCAAGAACGAAAGAGATGT 852
Db 3092 ATTAAGCCGCGCAGGACACTATTGAGCGGACCTTCCAGCAGTTTCAAGAACGAAAGATGT 3151
QY 853 ACATAGGCGCTTCAAGAGGAATTTGAAGAACTTGAAGAACTTGAAGAACTTGAAGAACTTGA 912
Db 3152 ACATAGGCGCTTCAAGAGGAATTTGAAGAACTTGAAGAACTTGAAGAACTTGAAGAACTTGA 3211
QY 913 GACTGTACGAATATTCTGACAGAGCAGCTTTTGAAGAGGACTAGAGAACTCTACAGAGA 972
Db 3212 GACTGTACGAATATTCTGACAGAGCAGCTTTTGAAGAGGACTAGAGAACTCTACAGAGA 3271
QY 973 GCCCAGAGAGCTGCTCTCTGAGGAGAGAGCCAGAGATGCTCAGCTCGGCTTCTACGAAAGCA 1032
Db 3272 GCCCAGAGAGCTGCTCTCTGAGGAGAGAGCCAGAGATGCTCAGCTCGGCTTCTACGAAAGCA 3331
QY 1033 GGTGAGGAGGTCAATTAATGAGTGGGAAAATTTGAACCTGCTCCTGCTGCTGCTGCTGCTGCTG 1092
Db 3332 GGTGAGGAGGTCAATTAATGAGTGGGAAAATTTGAACCTGCTCCTGCTGCTGCTGCTGCTGCTG 3391
QY 1093 AAAAAATAGATGAGACCTTGAAGAGCTCCAGAGAACTTCAAGAGGCGCACGAGTGAAGTCTGA 1152
Db 3392 AAAAAATAGATGAGACCTTGAAGAGCTCCAGAGAACTTCAAGAGGCGCACGAGTGAAGTCTGA 3451
QY 1153 CTTCAAGCTGGCCCAAGCTGAGGTGATCAAGGATCTCTGGCAGCCGCTGGGCGATCTCCT 1212
Db 3452 CTTCAAGCTGGCCCAAGCTGAGGTGATCAAGGATCTCTGGCAGCCGCTGGGCGATCTCCT 3511
QY 1213 CATTGACTCTCTCAAGATCACTGAGAAAGTCAAGGCACTTCAAGGAGAAATTTGCGCC 1272
Db -----

Db 3512 CATGACTCTCTCCAGATACCTCGGAGAAAGTCAGGACATTCGAGGAGAAATTCGGCC 3571
QY 1273 TCTGAAGAGAACGTCAGCCACGTCATGACCTTGTGCGCAGCTTACCACTTTGGGCAT 1332
Db 3572 TCTGAAGAGAACGTCAGCCACGTCATGACCTTGTGCGCAGCTTACCACTTTGGGCAT 3631
QY 1333 TCAGCTCTCACCGTATACCTCAGCACTCTGGAGAACCTGAAACACAGATGGAAGTTCT 1392
Db 3632 TCAGCTCTCACCGTATACCTCAGCACTCTGGAGAACCTGAAACACAGATGGAAGTTCT 3691
QY 1393 GCAGTGGCGCTCGAGGACCGAGTCAGGACGTCGATGAGCCACAGGACCTTTGGTCC 1452
Db 3692 GCAGTGGCGCTCGAGGACCGAGTCAGGACGTCGATGAGCCACAGGACCTTTGGTCC 3751
QY 1453 AGCATCTCAGCACTTTCTTCCAGCTGTGCCAGGCTCCCTGGGAGAGAGCCATCTCGCC 1512
Db 3752 AGCATCTCAGCACTTTCTTCCAGCTGTGCCAGGCTCCCTGGGAGAGAGCCATCTCGCC 3811
QY 1513 AAACAAGTGCCCTACTATATCAACACAGAGACTCAACACATTTGCTGGGACCATCCCAA 1572
Db 3812 AAACAAGTGCCCTACTATATCAACACAGAGACTCAACACATTTGCTGGGACCATCCCAA 3871
QY 1573 AATGACAGAGCTCTACCACTTTTAGCTGACCTGATATATGTCAGATTTCTCAGCTTATAS 1632
Db 3872 AATGACAGAGCTCTACCACTTTTAGCTGACCTGATATATGTCAGATTTCTCAGCTTATAS 3931
QY 1633 GACTGCCATGAACCTCCGAGACTGTCAGAGGCGCTTTGCTTGGATCTCTTGAGCCCTGTC 1692
Db 3932 GACTGCCATGAACCTCCGAGACTGTCAGAGGCGCTTTGCTTGGATCTCTTGAGCCCTGTC 3991
QY 1693 AGCTGATGTGATGCTTGGACGACGACACCTCAAGCAATGACCAAGCCATGATAT 1752
Db 3992 AGCTGATGTGATGCTTGGACGACGACACCTCAAGCAATGACCAAGCCATGATAT 4051
QY 1753 CTTGAGATTTAATTTTGGACCACTATTTATGACGCGCTGGAGCAAGACACAA 1812
Db 4052 CTTGAGATTTAATTTTGGACCACTATTTATGACGCGCTGGAGCAAGACACAA 4111
QY 1813 TTGCTGACGCTCTCTCTCGGAGATATGTCAGTGGCTGTGATTTATGAT 1872
Db 4112 TTGCTGACGCTCTCTCTCGGAGATATGTCAGTGGCTGTGATTTATGAT 4171
QY 1873 TACGGACGAACAGGAGGATCCGTCCTGTCCTTTTAAACTGGCATCTTTCCCTGTC 1932
Db 4172 TACGGACGAACAGGAGGATCCGTCCTGTCCTTTTAAACTGGCATCTTTCCCTGTC 4231
QY 1933 TAAAGCACATTTGGAGAACAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAG 1992
Db 4232 TAAAGCACATTTGGAGAACAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAG 4291
QY 1993 ATTCTGACGACGAGCTGGGCTCTCTCTGATGATTTATCCAA 2041
Db 4292 ATTCTGACGACGAGCTGGGCTCTCTCTGATGATTTATCCAA 4340

RESULT 9

US-09-845-416-32
; Sequence 32, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 32
; LENGTH: 4414
; TYPE: DNA

; ORGANISM: Homo sapiens
US-09-845-416-32

Query Match 77.5%; Score 1581; DB 12; Length 4414;
Best Local Similarity 87.6%; Pred. No. 0;
Matches 1788; Conservative 0; Mismatches 190; Indels 63; Gaps 3;
QY 1 TCCTTCACAGCATTTGGAGCTCCTGAAGACAAAGTCATTGGSCAGTTCATTGATGGAGAG 60
Db 1717 TCCTTCACAGCATTTGGAGCTCCTGAAGACAAAGTCATTGGSCAGTTCATTGATGGAGAG 1776
QY 61 TGAAGTAAACCTGGACCCCTTATCAACAGCTTTAGAGAAGTATTATCGTGGCTTTCTTC 120
Db 1777 TGAAGTAAACCTGGACCCCTTATCAACAGCTTTAGAGAAGTATTATCGTGGCTTTCTTC 1836
QY 121 TGTGAGGACACATTTGCAAGCAGACAGAGAGATTTCTAATGATGTGGAAGTGTGAAGA 180
Db 1837 TGTGAGGACACATTTGCAAGCAGACAGAGAGATTTCTAATGATGTGGAAGTGTGAAGA 1896
QY 181 CCAGTTTCTACTCATGATGAGGCTTACATGATGGATTGTACAGCCCATCAGGCGCGGTTGG 240
Db 1897 CCAGTTTCTACTCATGATGAGGCTTACATGATGGATTGTACAGCCCATCAGGCGCGGTTGG 1956
QY 241 TATATTTCTACAAATTTGGGAAGTGAATGGAACAGAGAAATTTATCAGAAGTGAAGA 300
Db 1957 TATATTTCTACAAATTTGGGAAGTGAATGGAACAGAGAAATTTATCAGAAGTGAAGA 2016
QY 301 AACTGAAGTACAGAGCAGATGAATCTCTAAATTCAGAGTGGGAATGCCTCAGGCTAGC 360
Db 2017 AACTGAAGTACAGAGCAGATGAATCTCTAAATTCAGAGTGGGAATGCCTCAGGCTAGC 2076
QY 361 TAGCATGAAAAACAAACCAATTTACATAGAGTTTAAATGATCTCCAGATCAGAAACT 420
Db 2077 TAGCATGAAAAACAAACCAATTTACATAGAGTTTAAATGATCTCCAGATCAGAAACT 2136
QY 421 GAAGAGTTGAATGACTGCTTAACAAACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480
Db 2137 GAAGAGTTGAATGACTGCTTAACAAACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2196
QY 481 GCCTCTTGGACCTGATCTTGAAGACCTTAAAGCCCAAGTACAAACATAGGTGCTTCA 540
Db 2197 GCCTCTTGGACCTGATCTTGAAGACCTTAAAGCCCAAGTACAAACATAGGTGCTTCA 2256
QY 541 AGAAGATCTAGAACAGAACAAAGTCAGGTCATTTCTCTCACTCAGATGCTGGTGTAGT 600
Db 2257 AGAAGATCTAGAACAGAACAAAGTCAGGTCATTTCTCTCACTCAGATGCTGGTGTAGT 2316
QY 601 TGATGAATCTAGTGAGATCAGCACTGCTTTTGAAGAGAGAGAGAGAGAGAGAGAGAG 660
Db 2317 TGATGAATCTAGTGAGATCAGCACTGCTTTTGAAGAGAGAGAGAGAGAGAGAGAGAG 2376
QY 661 AGATCGATGGCAACATCTGTAGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 720
Db 2377 AGATCGATGGCAACATCTGTAGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2436
QY 721 TTCTGACAGTGGAGGCTCTGACCTTTCTCTGAGGAGACTTCTGCTGGTGGCTAGAGT 780
Db 2437 CTCTCTCAATGGCAAGCTCTTACTGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2496
QY 781 GAAAGATGATGAATTAAGCGCGGAGGACCTATTTGAGCGGACCTTCCAGCAGTTCCAGAA 840
Db 2497 AAGAGAGATGAGTGAAG 2556
QY 841 GCAGAACGATGTACATAGGCGCTTCAAGAGGAGATTTGAAAACCTAAAGAACCTGTATCAT 900
Db 2557 ATCAAGTCTTCAAAACCTGCGCTTTTAAAGCGGATCTAGAAAGAGAGAGAGAGAGAG 2616
QY 901 GAGTACTCTTGAGACTGTACAGATATTTCTGACAGAGAGAGAGAGAGAGAGAGAGAG 960
Db 2617 GGGCAAACTGTA-----TTCACTCAAAACAGATCTTCTTCAACACTGAAG 2662
QY 961 ACTCTACAG 1020

Db 2663 AATAAGTCAGTGAACCCAGAAAGACGGAAGCATGGCTGGA----- 2700

Qy 1021 TCTACGAAGCAGGCTCAGGAGGTCAATCTGAGTGGGAAAAATTTGAACCTCCACTCGC 1080

Db 2701 -----TAACCTTGGCCCGGTCTGGGAATAATTTAGTCCAAAAAAGTGA----- 2743

Qy 1081 TGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAGACTCCAGAACTTCAAGAGGCCAC 1140

Db 2744 -----AAGAGTACACAGACACCCCTTGAAGACTCCAGAACTTCAAGAGGCCAC 2793

Qy 1141 GGATGAGTGGACCTCAAGCTGGCCCAAGCTGAGTGATCAAGGGATCTCGACCCCGT 1200

Db 2794 GGATGAGTGGACCTCAAGCTGGCCCAAGCTGAGTGATCAAGGGATCTCGACCCCGT 2853

Qy 1201 GGGCATCTCTCAATGACTCTCTCCAGATCACTCGAAGAGTCAAGGCACTTCGAGG 1260

Db 2854 GGGCATCTCTCAATGACTCTCTCCAGATCACTCGAAGAGTCAAGGCACTTCGAGG 2913

Qy 1261 AGAATTTGGCTCTGAAAGAGAACTGAGCCAGCTCAATGACTTGTCTGCGCAGCTTAC 1320

Db 2914 AGAATTTGGCTCTGAAAGAGAACTGAGCCAGCTCAATGACTTGTCTGCGCAGCTTAC 2973

Qy 1321 CACTTTGGGCACTCAGCTCTCACCTATACCTCAGACACTCTGGAAGACTTGAACACAC 1380

Db 2974 CACTTTGGGCACTCAGCTCTCACCTATACCTCAGACACTCTGGAAGACTTGAACACAC 3033

Qy 1381 ATGGAAGCTTCTGAGTGGCCCTCGAGGACCGAGTCAAGGCACTGCATGAAGCCACAG 1440

Db 3034 ATGGAAGCTTCTGAGTGGCCCTCGAGGACCGAGTCAAGGCACTGCATGAAGCCACAG 3093

Qy 1441 GGACTTTGGTCCAGCATCTCAGCACTTCTTTCACAGCTGTCTCCAGGGTCCCTGGGAG 1500

Db 3094 GGACTTTGGTCCAGCATCTCAGCACTTCTTTCACAGCTGTCTCCAGGGTCCCTGGGAG 3153

Qy 1501 AGCCATCTCGCCAAACAAAGTCCCTACTATATCAACACGAGACTCAACAACTTGTG 1560

Db 3154 AGCCATCTCGCCAAACAAAGTCCCTACTATATCAACACGAGACTCAACAACTTGTG 3213

Qy 1561 GGACCATCCAAATATGACAGCTCTACAGCTTTTACGTGCTGACTGAATATGTCAGATT 1620

Db 3214 GGACCATCCAAATATGACAGCTCTACAGCTTTTACGTGCTGACTGAATATGTCAGATT 3273

Qy 1621 CTCAGCTTATAGGACTGCCATGAACCTCCGAAGACTCGAAGGCCCTTTGCTTGGATCT 1680

Db 3274 CTCAGCTTATAGGACTGCCATGAACCTCCGAAGACTCGAAGGCCCTTTGCTTGGATCT 3333

Qy 1681 CTGAGCTGTCACTGCATGTGATGCCCTTGACCAAGCAACACTCAAGCAAAATGACCA 1740

Db 3334 CTGAGCTGTCACTGCATGTGATGCCCTTGACCAAGCAACACTCAAGCAAAATGACCA 3393

Qy 1741 GCCATGGATATCTCGCAGATTATTAATTTGTTGACCACTATTATGACCGCTCGAGCA 1800

Db 3394 GCCATGGATATCTCGCAGATTATTAATTTGTTGACCACTATTATGACCGCTCGAGCA 3453

Qy 1801 AGAGCACAAATTTGTCACACTCCCTCTCTGCGTGATATGTCTGAACTGGCTGCT 1860

Db 3454 AGAGCACAAATTTGTCACACTCCCTCTCTGCGTGATATGTCTGAACTGGCTGCT 3513

Qy 1861 GAATGTTTATGATCGGGACGACAGGGAGGATCGGTCTCTGCTTTTAAACCTGGCAT 1920

Db 3514 GAATGTTTATGATCGGGACGACAGGGAGGATCGGTCTCTGCTTTTAAACCTGGCAT 3573

Qy 1921 CATTTCCCTGTGTAAGACATTTGGAAGACAAAGTACAGATACCTTTTCAAGCAAGTGGC 1980

Db 3574 CATTTCCCTGTGTAAGACATTTGGAAGACAAAGTACAGATACCTTTTCAAGCAAGTGGC 3633

Qy 1981 AGTTCACAGAGATTTGTGACCAAGCGAGCTGGGCCCTCTCTGCTGATGATTCATCCA 2040

Db 3634 AGTTCACAGAGATTTGTGACCAAGCGAGCTGGGCCCTCTCTGCTGATGATTCATCCA 3693

Qy 2041 A 2041

Db 3694 A 3694

RESULT 10

US-09-845-416-14

; Sequence 14, Application US/09845416

; Publication No. US20030171312A1

; GENERAL INFORMATION:

; APPLICANT: XIAO, XIAO

; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE

; FILE OF INVENTION: THEREOF

; FILE REFERENCE: DE1142

; CURRENT APPLICATION NUMBER: US/09/845,416

; PRIOR FILING DATE: 2001-04-30

; PRIOR APPLICATION NUMBER: 60/200,777

; PRIOR FILING DATE: 2000-04-28

; NUMBER OF SEQ ID NOS: 36

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 14

; LENGTH: 3446

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-845-416-14

Query Match 76.9%; Score 1569; DB 12; Length 3446;

Best Local Similarity 87.6%; Pred. No. 0;

Matches 1787; Conservative 0; Mismatches 190; Indels 64; Gaps 4;

Qy 1 TCCTTCACAGCATTTGGAGCTCTCTGAGACAGATGTCATTTGGCAGTTCATTGATGGAGAG 60

Db 960 TCCTTCACAGCATTTGGAGCTCTCTGAGACAGATGTCATTTGGCAGTTCATTGATGGAGAG 1019

Qy 61 TGAATTAACCTCGACCGCTTATCAACAGCTTTAGAGAGATTTATCGTGGCTTCTTTC 120

Db 1020 TGAATTAACCTCGACCGCTTATCAACAGCTTTAGAGAGATTTATCGTGGCTTCTTTC 1079

Qy 121 TGCTGAGGACACATTTGACAGCACAGGAGATTTCTAATGATGTGGAAGTGGTGAAGA 180

Db 1080 TGCTGAGGACACATTTGACAGCACAGGAGATTTCTAATGATGTGGAAGTGGTGAAGA 1139

Qy 181 CCAGTTTCTACTCATGAGGGGTACATGATGGATTTGACAGCCCATCAGGCGCGGTTGG 240

Db 1140 CCAGTTTCTACTCATGAGGGGTACATGATGGATTTGACAGCCCATCAGGCGCGGTTGG 1199

Qy 241 TAATATTTCTCAATTTGGAAAGTAAAGCTGATTTGGAACAGGAAATTTATCAGAAGATGAAGA 300

Db 1200 TAATATTTCTCAATTTGGAAAGTAAAGCTGATTTGGAACAGGAAATTTATCAGAAGATGAAGA 1259

Qy 301 AACTGAAGTACAAGACAGATGAATCTCTCTAATTTCAAGATGGGAATGCTCAGGGTAGC 360

Db 1260 AACTGAAGTACAAGACAGATGAATCTCTCTAATTTCAAGATGGGAATGCTCAGGGTAGC 1319

Qy 361 TAGCATGGAAGAAACAAAGCAATTTACATAGAGTTCATGATGATCTCCAGAACTCAAACT 420

Db 1320 TAGCATGGAAGAAACAAAGCAATTTACATAGAGTTCATGATGATCTCCAGAACTCAAACT 1378

Qy 421 GAAAGAGTTGAATGACTGGCTTACAAAACAGAGAAAGAAAGAAATGGAGGAAGA 480

Db 1379 GAAAGAGTTGAATGACTGGCTTACAAAACAGAGAAAGAAAGAAATGGAGGAAGA 1438

Qy 481 GCCTTTGGACCTGATCTTGAAGACCTAAAGCCCAAGTACACACATCAAGTGGCTTCA 540

Db 1439 GCCTTTGGACCTGATCTTGAAGACCTAAAGCCCAAGTACACACATCAAGTGGCTTCA 1498

Qy 541 AGAAGATCTACAACAGAAACAGTCAAGGTCAATTTCTCCTCCTCCTCCTCCTCCTCCTCCT 600

Db 1499 AGAAGATCTACAACAGAAACAGTCAAGGTCAATTTCTCCTCCTCCTCCTCCTCCTCCTCCT 1558

Qy 601 TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTTGAAGAAACAACACTTAAGTATTGGG 660

Db 1559 TGATGAATCTAGTGGAGATCACGCAACTGCTGCTTTTGAAGAAACAACACTTAAGTATTGGG 1618

Qy 661 AGATCGATGGCAACATCTGTAGATGGACAGACCGCTGGGTTCTTTTACAAGACAG 720

Db 1619 AGATCGATGGGCAACATCTCTAGATGGACAGAGACCGCTGGCTTCTTTTACAAGACAT 1678
QY 721 TTCTGACAGTGGAGCGCTGACACCTTCTCTGAGAACTTCTGCTGGTGGCTACAGCT 780
Db 1679 CCTTCTCAATGGCAACCTTCTACTGAGACAGTGCCTTTTATGTCATGGCTTTCAGA 1738
QY 781 GAAAGATGATGAATTAAGCGGAGGACAGCTATTGGAGCGGACATTTCCAGCAGTTCAGAA 840
Db 1739 AAAAGAGATGAGTGAACAGATTCACACAACTGGCTTTAAGATCAAAATGAATGTT 1798
QY 841 GCAGACGATGTACTAGGCGCTTCAAGAGGGAATTAAGAACTCAAGACCTGTAAATCAT 900
Db 1799 ATCAAGTCTTCAAAACTGGCGCTTTTAAAGCGGATCTAGAAAAGAAAAGCAATCCAT 1858
QY 901 GAGTACTCTGAGAGTGTACGAATATTTCTGACAGAGAGCGCTTTTGAAGGACTAGAGAA 960
Db 1859 GGGCAACTGTA-----TTCACTCAAAACAGATCTTCTTCAACACTGAAG 1904
QY 961 ACTCTACAGAGAGCCAGAGAGTGCCTCTGAGGAGAGAGCCAGAAATCTACTGGCT 1020
Db 1905 AATAAGTCACTGACCCAGAGAGCGGAGCATGGCTGGA----- 1942
QY 1021 TCTACGAAAGAGCGTGGAGGTCATATCTGAGTGGGAAATTTGAACCTGCACTCCGC 1080
Db 1943 -----TAACTTGGCCGTGTGGGATTAATTAGTCCAAAACCTTGAA----- 1985
QY 1081 TGACTGGCAGAGAAAATAGATGAGAGCCCTTGAAGACTCCAGGAACCTTCAAGAGGCCAC 1140
Db 1986 -----AAGATCAGCAGACAGACCTTTGAAGACTCCAGGAACCTTCAAGAGGCCAC 2035
QY 1141 GATGAGCTGGACCTCAAGCTGGCCCAAGCTGAGTGTATCAAGGATCTTGGCAGCCCT 1200
Db 2036 GATGAGCTGGACCTCAAGCTGGCCCAAGCTGAGTGTATCAAGGATCTTGGCAGCCCT 2095
QY 1201 GGGCGATCTCCCTACTGCTCTCCCAAGATCACTCGAGAAAGTCAAGCACTTCGAGG 1260
Db 2096 GGGCGATCTCCCTACTGCTCTCCCAAGATCACTCGAGAAAGTCAAGCACTTCGAGG 2155
QY 1261 AGAAATGGCCCTTGAAGAGAGAGTGGAGGAGGAGTCAATGAGTCTGCTGCCAGGTTC 1320
Db 2156 AGAAATGGCCCTTGAAGAGAGAGTGGAGGAGGAGTCAATGAGTCTGCTGCCAGGTTC 2215
QY 1321 CACTTTGGCATTGAGCTCTCAAGTATACCTCAGCTCTGGAAGACCTGGAACACAG 1380
Db 2216 CACTTTGGCATTGAGCTCTCAAGTATACCTCAGCTCTGGAAGACCTGGAACACAG 2275
QY 1381 ATGGAAGCTCTTCCAGGTGGCGTCGAGGAGGAGTCAAGGAGCTGCAATGAAGCCACAG 1440
Db 2276 ATGGAAGCTCTTCCAGGTGGCGTCGAGGAGGAGTCAAGGAGCTGCAATGAAGCCACAG 2335
QY 1441 GGACTTGGTCCAGATCTCAGACATTTCTTCCAGCTGTGCCAGGTCCTGGGAGAG 1500
Db 2336 GGACTTGGTCCAGATCTCAGACATTTCTTCCAGCTGTGCCAGGTCCTGGGAGAG 2395
QY 1501 AGCCATCTCGCAAAACAAAGTGCCTACTATATCAACACAGAGACTCAAAACACTTGGTG 1560
Db 2396 AGCCATCTCGCAAAACAAAGTGCCTACTATATCAACACAGAGACTCAAAACACTTGGTG 2455
QY 1561 GGACCATCCCAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGGAATATATGCAATT 1620
Db 2456 GGACCATCCCAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGGAATATATGCAATT 2515
QY 1621 CTCAGCTATAGGACTGGCATGAACCTCCGAGAGCTGAGAGGCGCTTTGCTTGGATCT 1680
Db 2516 CTCAGCTATAGGACTGGCATGAACCTCCGAGAGCTGAGAGGCGCTTTGCTTGGATCT 2575
QY 1681 CTTGAGCCTGTGAGCTGATGATGCTTGGACAGCAGACACCTCTCAGCAAAATGACCA 1740
Db 2576 CTTGAGCCTGTGAGCTGATGATGCTTGGACAGCAGACACCTCTCAGCAAAATGACCA 2635
QY 1741 GCCCATGGATATCTCGAGATTAATTTGTTGACCACTTTTATGACCGCTTGGAGCA 1800
Db 2636 GCCCATGGATATCTCGAGATTAATTTGTTGACCACTTTTATGACCGCTTGGAGCA 2695

RESULT 11

US-09-845-416-6

; Sequence 6, Application US/09845416

; Publication No. US20030171312A1

; GENERAL INFORMATION:

; APPLICANT: XIAO, XIAO

; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE

; FILE REFERENCE: DEL1142

; CURRENT APPLICATION NUMBER: US/09/845,416

; PRIOR FILING DATE: 2001-04-30

; PRIOR APPLICATION NUMBER: 60/200,777

; NUMBER OF SEQ ID NOS: 36

; SOFTWARE: Patent Ver. 2.1

; SEQ ID NO 6

; LENGTH: 3999

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-845-416-6

Query Match 75.6%; Score 1542; DB 12; Length 3999;

Best Local Similarity 80.7%; Pred. No. 0;

Matches 2041; Conservative 0; Mismatches 0; Indels 489; Gaps 1;

QY 1 TCCTTCACAGCATTTGGAAGCTCTGAAGACAAGTCAATTTGGCAGTTCATTGATGGAGAG 60
Db 960 TCCTTCACAGCATTTGGAAGCTCTGAAGACAAGTCAATTTGGCAGTTCATTGATGGAGAG 1019
QY 61 TGAAGTAAACCTGGACCGCTTATCAACACAGCTTTAGAAGATATTATCGTGGCTTCTTC 120
Db 1020 TGAAGTAAACCTGGACCGCTTATCAACACAGCTTTAGAAGATATTATCGTGGCTTCTTC 1079
QY 121 TGCTGAGGACACATTTGAAGCAAGCAAGAGAGATTTCTAATGATGTGAAGTGAAGA 180
Db 1080 TGCTGAGGACACATTTGAAGCAAGCAAGAGAGATTTCTAATGATGTGAAGTGAAGA 1139
QY 181 CCAGTTTCTACTACTCATGAGGGTACATGATGGATTTGACGCCCATCAGGGCCGGGTGG 240
Db 1140 CCAGTTTCTACTACTCATGAGGGTACATGATGGATTTGACGCCCATCAGGGCCGGGTGG 1199
QY 241 TAATATTTACAAATTTGGAAGTAACTGATGATGGAACAGAGAAATTTATCAGAAGATGAAGA 300
Db 1200 TAATATTTACAAATTTGGAAGTAACTGATGGAACAGAGAAATTTATCAGAAGATGAAGA 1259
QY 301 AACTGAGTACAGAGAGAGATGATCTCTTAATTCAGAGATGGGAATCCCTCAGGATGAC 360
Db 1260 AACTGAGTACAGAGAGAGATGATCTCTTAATTCAGAGATGGGAATCCCTCAGGATGAC 1319
QY 361 TACATGGAAAAACAAACAAATTTACATGAGATTTTAAATGATCTCCAGAAATCAGAAACT 420

Db 1320 TAGCATGGAAAAACAAATTTACATAGAGTATTTAATGGATCTCCGAATCAGAACT 1379
QY 421 GAAAGATTGAATGACTGGCTTACAAAACAGAGAAGAACAAAGTGGAGGAGA 480
Db 1380 GAAAGATTGAATGACTGGCTTACAAAACAGAGAAGAACAAAGTGGAGGAGA 1439
QY 481 GCCTCTTGGACCTGATCTTGAAGACCTTAAAGCCCAAGTACAAACACATTAAGGTCCTTCA 540
Db 1440 GCCTCTTGGACCTGATCTTGAAGACCTTAAAGCCCAAGTACAAACATTAAGGTCCTTCA 1499
QY 541 AGAAGATCTAGAACAAGAACAGTCAAGGCTCAATTCCTCACTCAATGCTGGTGGT 600
Db 1500 AGAAGATCTAGAACAAGAACAGTCAAGGCTCAATTCCTCACTCAATGCTGGTGGT 1559
QY 601 TGATGAATCTAGTGGAGATCAGCAACTGCTGCTTTTGAAGAACAACTTAAGGTAATGGG 660
Db 1560 TGATGAATCTAGTGGAGATCAGCAACTGCTGCTTTTGAAGAACAACTTAAGGTAATGGG 1619
QY 661 AGATCGATGGCAACATCTGTAGATGGACAGAGACCGCTGGTTCCTTTTACAGA- 717
Db 1620 AGATCGATGGCAACATCTGTAGATGGACAGAGACCGCTGGTTCCTTTTACAGA- 1679
QY 718 ----- 717
Db 1680 GCCTGAACCTAGCTCCTGGACTGACCACATATTGGAGCCTCTCTACTCAGACTGTTACTCT 1739
QY 718 ----- 717
Db 1740 GGTGACACAACTGTGTACTTAAGGAACCTGCCATCTCCAACTAGAAATGCCATCTC 1799
QY 718 ----- 717
Db 1800 CTTGATGTTGGAGTACTACTACTATAGATTACTGCAACAGTTCCTCCCTGGACCTGGAAAA 1859
QY 718 ----- 717
Db 1860 GTTCTCTGCTGGCTTACAGAAGCTGAAACAACTGCCAATGTCTCTACAGGATGCTAACCG 1919
QY 718 ----- 717
Db 1920 TAAGGAAGGTCCTAGAGACTCCAGGAGTAAAGAGCTGATGAACAAAGGCAAGA 1979
QY 718 ----- 717
Db 1980 CTTCAAGGTGAATTAAGCTCAGACAGATGTTATACAACTGGATGAAGAACAGCA 2039
QY 718 ----- 717
Db 2040 AAAAACTCTGAGATCCTGGAGGTTCCGATGATGACAGTCTCTGTACAAAGACGTTTGA 2099
QY 718 ----- 717
Db 2100 TAACATGACATCAAGTGGAGTGAACCTTCGGAAGAAAGTCTCAACATTAGTCCCATTT 2159
QY 718 -----CAGTTCTGACCAAGTGAAGCGTCTGCACCTTCTCTCGAGAACTTCTGGTGTG 771
Db 2160 GGAAGCCAGTTCTGACCAAGTGAAGCGTCTGCACCTTCTCTCGAGAACTTCTGGTGTG 2219
QY 772 GCTACAGCTGAAGATGATGAATTAAGCGCGAGCGCACTTATGGAGGCGACTTCCAGC 831
Db 2220 GCTACAGCTGAAGATGATGAATTAAGCGCGAGCGCACTTATGGAGGCGACTTCCAGC 2279
QY 832 AGTTCAAGAGCAGACAGATGATACATAGGCGCTTCAAGAGGGAATTTGAACACTTAAAGAAC 891
Db 2280 AGTTCAAGAGCAGACAGATGATACATAGGCGCTTCAAGAGGGAATTTGAACACTTAAAGAAC 2339
QY 892 TGTAAATCATGAGTACTCTTGAGACTGTAGAAATATTTCTGACAGAGAGCGCTTTGGAAG 951
Db 2340 TGTAAATCATGAGTACTCTTGAGACTGTAGAAATATTTCTGACAGAGAGCGCTTTGGAAG 2399
QY 952 ACTAGAGAACTCTACAGAGAGCGCGAGAGCTGCTCTCTGAGAGAGAGCGCGCAATGT 1011
Db 2400 ACTAGAGAACTCTACAGAGAGCGCGAGAGCTGCTCTCTGAGAGAGAGCGCGCAATGT 2459

QY 1012 CACTCGCGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAATTTGAACCT 1071
Db 2460 CACTCGCGCTTCTACGAAAGCAGGCTGAGGAGGTCAATACTAGTGGGAAAAATTTGAACCT 2519
QY 1072 GCATCTCGCTGACTGGCAGAGAAAAATAGATGAGACCTTTGAAAGACTCCAGGAACTTCA 1131
Db 2520 GCATCTCGCTGACTGGCAGAGAAAAATAGATGAGACCTTTGAAAGACTCCAGGAACTTCA 2579
QY 1132 AGAGGCCACGATGAGCTGGACCTCAAGCTCGCCCAAGCTGAGGATGATCAAGGATCCTG 1191
Db 2580 AGAGGCCACGATGAGCTGGACCTCAAGCTCGCCCAAGCTGAGGATGATCAAGGATCCTG 2639
QY 1192 GCAGCCCGTGGGCGATCTCTCTCATTTGACTCTCTCCAGATCACCCTCGAGAAAGTCAAGC 1251
Db 2640 GCAGCCCGTGGGCGATCTCTCTCATTTGACTCTCTCCAGATCACCCTCGAGAAAGTCAAGC 2699
QY 1252 ACTTCGAGGAGAAATGGCGCTCTGAAAGAGAAAGTGCAGCAGCTCAATGACTTGTCTG 1311
Db 2700 ACTTCGAGGAGAAATGGCGCTCTGAAAGAGAAAGTGCAGCAGCTCAATGACTTGTCTG 2759
QY 1312 CCAGCTTACCACTTTGGGATTAAGCTCTCACCTATATACTCAGCACCTCTGGAAGACCT 1371
Db 2760 CCAGCTTACCACTTTGGGATTAAGCTCTCACCTATATACTCAGCACCTCTGGAAGACCT 2819
QY 1372 GBAACACAGATGGAAGCTTCTGCGAGTGGCGCTCGAGACCGAGTCCAGCAGCTGCATGA 1431
Db 2820 GBAACACAGATGGAAGCTTCTGCGAGTGGCGCTCGAGACCGAGTCCAGCAGCTGCATGA 2879
QY 1432 AGCCACACAGGACCTTTGGTCCAGCATCTCAGCACTTTCTTCCACGCTCTGCCAGGTC 1491
Db 2880 AGCCACACAGGACCTTTGGTCCAGCATCTCAGCACTTTCTTCCACGCTCTGCCAGGTC 2939
QY 1492 CTGGGAGAGACCATCTCGCCAAACAAAGTGCCTTACTATATCAACACGAGACTCAAC 1551
Db 2940 CTGGGAGAGACCATCTCGCCAAACAAAGTGCCTTACTATATCAACACGAGACTCAAC 2999
QY 1552 AACTTGTCTGGACCATCCCAAAATGACAGACTCTACCAGTCTTTTACGCTGACCTGAATA 1611
Db 3000 AACTTGTCTGGACCATCCCAAAATGACAGACTCTACCAGTCTTTTACGCTGACCTGAATA 3059
QY 1612 TGTCAATCTTCAGCTTATAGGACTGCCATGAAACTCCGAGACTCGAGAAGCCCTTTG 1671
Db 3060 TGTCAATCTTCAGCTTATAGGACTGCCATGAAACTCCGAGACTCGAGAAGCCCTTTG 3119
QY 1672 CTGTGATCTCTGAGCTGTGACGCTGACGCTGCAATGATGCTTGGACCAACACCTCAAGCA 1731
Db 3120 CTGTGATCTCTGAGCTGTGACGCTGCAATGATGCTTGGACCAACACCTCAAGCA 3179
QY 1732 AAATGACCAAGCCCATGGATATCTCGAGATTAATTAATTTGTTGACCACTATTATGACCG 1791
Db 3180 AAATGACCAAGCCCATGGATATCTCGAGATTAATTAATTTGTTGACCACTATTATGACCG 3239
QY 1792 CTGGAGCAAGAGACCAACAAATTTGGTCAAGTCCCTCTCTGGTGGATATGTCTGAA 1851
Db 3240 CTGGAGCAAGAGACCAACAAATTTGGTCAAGTCCCTCTCTGGTGGATATGTCTGAA 3299
QY 1852 CTGGCTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1911
Db 3300 CTGGCTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 3359
QY 1912 AACTGGCATCTATTTCCCTGTGTAAAGCACTTTGGAAGACAACTGACAGATACTTTCAA 1971
Db 3360 AACTGGCATCTATTTCCCTGTGTGTAAAGCACTTTGGAAGACAACTGACAGATACTTTCAA 3419
QY 1972 GCAAGTGGCAGATTCACAGGATTTTGTGACCGAGGAGCTGGGCTCTCTCTGCTGATGA 2031
Db 3420 GCAAGTGGCAGATTCACAGGATTTTGTGACCGAGGAGCTGGGCTCTCTCTGCTGATGA 3479
QY 2032 TTCTATCCAA 2041
Db 3480 TTCTATCCAA 3489

RESULT 12

US-09-845-416-28

; Sequence 28, Application US/09845416

; Publication No. US20030171312A1

; GENERAL INFORMATION:

; APPLICANT: XIAO, XIAO

; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE

; FILE REFERENCE: DEL142

; CURRENT APPLICATION NUMBER: US/09/845,416

; PRIOR FILING DATE: 2001-04-30

; PRIOR APPLICATION NUMBER: 60/200,777

; PRIOR FILING DATE: 2000-04-28

; NUMBER OF SEQ ID NOS: 36

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 28

; LENGTH: 4966

; TYPE: DNA

; ORGANISM: Homo sapiens

; US-09-845-416-28

Query Match

75.6%; Score 1542; DB 12; Length 4966;

Best Local Similarity 80.7%; Pred. No. 0;

Matches 2041; Conservative 0; Mismatches 0; Indels 489; Gaps 1;

QY	1	TCCTTCACAGCATTTGGAAGCTCCTGAAGACAGTCATTGGCAGTTCTATTGATGGAGAG	60
DB	1717	TCCTTCACAGCATTTGGAAGCTCCTGAAGACAGTCATTGGCAGTTCTATTGATGGAGAG	1776
QY	61	TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAAGATATTAATCGTGGCTCTTTC	120
DB	1777	TGAAGTAAACCTGGACCGTTATCAAAACAGCTTTAGAAAGATATTAATCGTGGCTCTTTC	1836
QY	121	TGCTGAGGACATTTGCAAGCAGCAGAGAGATTTCTAATGATGGAAGTGGTGAAGA	180
DB	1837	TGCTGAGGACATTTGCAAGCAGCAGAGAGATTTCTAATGATGGAAGTGGTGAAGA	1896
QY	181	CCAGTTTCATCTATGAGGGGTACATGATGGATTGACGCCCATCAGGCCCGGGTGG	240
DB	1897	CCAGTTTCATCTATGAGGGGTACATGATGGATTGACGCCCATCAGGCCCGGGTGG	1956
QY	241	TATATTTCTACAAATTTGGGAAGTACGATGATGGAAGAGAAATATCAGAGATGAAGA	300
DB	1957	TATATTTCTACAAATTTGGGAAGTACGATGATGGAAGAGAAATATCAGAGATGAAGA	2016
QY	301	AACGTGAAGTACAGAGCAGATGATCTCTTAATTCAGAGTGGGAATGCTCAGGTTAGC	360
DB	2017	AACGTGAAGTACAGAGCAGATGATCTCTTAATTCAGAGTGGGAATGCTCAGGTTAGC	2076
QY	361	TAGCATGGAAAAACAAACCAATTTACATAGAGTTTAAATGGATCTCCAGAAATCAGAACT	420
DB	2077	TAGCATGGAAAAACAAACCAATTTACATAGAGTTTAAATGGATCTCCAGAAATCAGAACT	2136
QY	421	GAAGAGTTGAATGACTGGCTTACAAACACAGAGAGAGAGAGAGAGAGAGAGAGAGAG	480
DB	2137	GAAGAGTTGAATGACTGGCTTACAAACACAGAGAGAGAGAGAGAGAGAGAGAGAGAG	2196
QY	481	GCCTCTGGACCTGATCTTGAAGACCTTAAACGCCAAGTACAAACCAATTAAGTGGTTCA	540
DB	2197	GCCTCTGGACCTGATCTTGAAGACCTTAAACGCCAAGTACAAACCAATTAAGTGGTTCA	2256
QY	541	AGAAGATCTAGAACAGACAGTCAAGGTTCAATTTCTCAGTCAATGATGGTGGTAGT	600
DB	2257	AGAAGATCTAGAACAGACAGTCAAGGTTCAATTTCTCAGTCAATGATGGTGGTAGT	2316
QY	601	TGATGATCTAGTGGAGATCAGCAACTGCTGTTTGGAGAGAACTTAAGTATTGGG	660
DB	2317	TGATGATCTAGTGGAGATCAGCAACTGCTGTTTGGAGAGAACTTAAGTATTGGG	2376
QY	661	AGATCGATGGGCAAAACATCTGTAGATGGACAGAGACCGCTGGGTCTTTTACAAGA---	717
DB	2377	AGATCGATGGGCAAAACATCTGTAGATGGACAGAGACCGCTGGGTCTTTTACAAGA---	2436

QY	718	-----	717
DB	2437	GCCTGAOCTAGCTCCTGGAGCTGACCACTATTGGAGGCTTCTCTACTACTGACTGTACTCT	2496
QY	718	-----	717
DB	2497	GGTGACACACCTGTGGTTACTAAGGAACATGCCATCTCCAACTAGAAATGCCATCTTC	2556
QY	718	-----	717
DB	2557	CTTGATGTTGGAGGTACCTACTACTATAGATTACTGCAACAGTTCCCTCGGACCTGGAAAA	2616
QY	718	-----	717
DB	2617	GTTTCTGCTGGCTTACAGAAAGCTGAAACAACTGGCAATGCTCTACAGGATGTACCGG	2676
QY	718	-----	717
DB	2677	TAAGGAAGGCTCCTAGAGACTCCAGGGAGTAAAGAGCTGATGAAACAATGGCAAGA	2736
QY	718	-----	717
DB	2737	CCTCCAGGTTGAATGGAAGCTCACAACAGATGTTTATCACACCTGGATGAAACAGCCA	2796
QY	718	-----	717
DB	2797	AAATATCCTGAGATCCTCGAAGGTTCCGATGATGACAGTCTCTTTACAAAGAGCTTTGGA	2856
QY	718	-----	717
DB	2857	TAACATGAACCTTAAGTGGAGTGAACCTTGGGAAAAGTCTCTCAACATTAGTCCOATTT	2916
QY	718	-----	717
DB	2917	GGAAAGGCTGCTGACCAAGTGGAGGCTGACCTTCTCTCGAGAACTTCTGGGTGG	2976
QY	772	GCTACAGCTGAAAGATGATGAATTAAGCGGAGGAGCTTAAAGAGGAGTAAAGAGAC	831
DB	2977	GCTACAGCTGAAAGATGATGAATTAAGCGGAGGAGCTTAAAGAGGAGTAAAGAGAC	3036
QY	832	AGTTGAGAGCAGACAGCTTACATAGGCTTCAAGGGGAGTAAAGAGTAAAGAGAC	891
DB	3037	AGTTGAGAGCAGACAGCTTACATAGGCTTCAAGGGGAGTAAAGAGTAAAGAGAC	3096
QY	892	TGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGAGAGCTTTGGAAGG	951
DB	3097	TGTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGAGAGCTTTGGAAGG	3156
QY	952	ACTAGAGAACTCTACAGAGAGAGAGAGCTGCTCTCTGAGAGAGAGAGAGAGAGAG	1011
DB	3157	ACTAGAGAACTCTACAG	3216
QY	1012	CAGTGGCTTCTAGAAAGCAGGCTGAGGAGTCAATGAGTGGGAGAGAGAGAGAGAG	1071
DB	3217	CAGTGGCTTCTAGAAAGCAGGCTGAGGAGTCAATGAGTGGGAGAGAGAGAGAGAG	3276
QY	1072	GCATCCGCTGACAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	1131
DB	3277	GCATCCGCTGACAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG	3336
QY	1132	AGAGGCGCAGATGAGTGGAGCTCAAGCTGCGGAGAGAGAGAGAGAGAGAGAGAG	1191
DB	3337	AGAGGCGCAGATGAGTGGAGCTCAAGCTGCGGAGAGAGAGAGAGAGAGAGAGAG	3396
QY	1192	GCAGGCGCTGGGAGATCTCTCAATTCAGTCTCTCCAGATCACTCCAGAGAGTCAAGGC	1251
DB	3397	GCAGGCGCTGGGAGATCTCTCAATTCAGTCTCTCCAGATCACTCCAGAGAGTCAAGGC	3456
QY	1252	ACTTCGAGGAGAAATTCGCTCTGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAG	1311
DB	3457	ACTTCGAGGAGAAATTCGCTCTGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAG	3516

QY 718 ----- 717
Db 2761 CTTCCAAAGGTGAATTTGAAGCTCACACAGATGTTTATCACAACTGGATGAAGAACAGCCA 2820
QY 718 ----- 717
Db 2821 AAAAACTCTGAGATCCCTGGAGGTTCCGATGATGACAGTCTCTGTACAAAGACGTTTGA 2880
QY 718 ----- 717
Db 2881 TAACATGAACCTCAAGTGGAGTGAACCTCGGAAGAAAGTCTCTCAACATTAGTCCCAATTT 2940
QY 718 -----CAGTTCTGACCAGTGAAGCGTCTGCACCTTTCTCTGACGAAGACTTTCTGGGTG 771
Db 2941 GGAAGCCAGTTCTGACCAGTGAAGCGTCTGCACCTTTCTCTGACGAAGACTTTCTGGGTG 3000
QY 772 GCTACAGCTGGAAGATGATGAATTAAGCCGCGCAGCCACTTATTTGGAGGCGACTTTCCAGC 831
Db 3001 GCTACAGCTGGAAGATGATGAATTAAGCCGCGCAGCCACTTATTTGGAGGCGACTTTCCAGC 3060
QY 832 AGTTGAGAGCAGAACGATGATACATAGGCGCTTCAAGAGGGAATTTGAAGAACTTAAAGAAC 891
Db 3061 AGTTGAGAGCAGAACGATGATACATAGGCGCTTCAAGAGGGAATTTGAAGAACTTAAAGAAC 3120
QY 892 TGTAATCATGAGTACTTTGAGACTGTACGAATATTTCTGACAGACACCTTTTGGAGG 951
Db 3121 TGTAATCATGAGTACTTTGAGACTGTACGAATATTTCTGACAGACACCTTTTGGAGG 3180
QY 952 ACTAGAGAACTCTTACCAGAGCCGAGAGAGTGCCTCTGAGAGAGAGCCAGCAATGT 1011
Db 3181 ACTAGAGAACTCTTACCAGAGCCGAGAGAGTGCCTCTGAGAGAGAGCCAGCAATGT 3240
QY 1012 CACTGGCTTTACGAAGCAGGCTGAGGAGTCAATAGTGGGAAAAATTTGAACCT 1071
Db 3241 CACTGGCTTTACGAAGCAGGCTGAGGAGTCAATAGTGGGAAAAATTTGAACCT 3300
QY 1072 GCACCTCCCTGACTGGCAGAGAAATAGATGAGACCTTTGAAGACTCCAGGAACTTCA 1131
Db 3301 GCACCTCCCTGACTGGCAGAGAAATAGATGAGACCTTTGAAGACTCCAGGAACTTCA 3360
QY 1132 AGAGCCAGGATGAGTGGACCTCAAGTGGCCCAAGCTGAGTGATCAAGGGATCTCG 1191
Db 3361 AGAGCCAGGATGAGTGGACCTCAAGTGGCCCAAGCTGAGTGATCAAGGGATCTCG 3420
QY 1192 GAGCCGCTGGCGATCTCTCAATGACTCTCTCAAGATCACTCGAAGAACTCAAGC 1251
Db 3421 GAGCCGCTGGCGATCTCTCAATGACTCTCTCAAGATCACTCGAAGAACTCAAGC 3480
QY 1252 ACTTCGAGAGAAATTTGGCGCTCTGAAAGAGAACTGAGCCACCTCAATGACCTTGCTG 1311
Db 3481 ACTTCGAGAGAAATTTGGCGCTCTGAAAGAGAACTGAGCCACCTCAATGACCTTGCTG 3540
QY 1312 CCAGCTTACCCTTTGGGCACTCAGCTCTCACCTGATAAACCAGCAGCTCTGGAAGACT 1371
Db 3541 CCAGCTTACCCTTTGGGCACTCAGCTCTCACCTGATAAACCAGCAGCTCTGGAAGACT 3600
QY 1372 GACACCAATGGAAGCTTTCTGAGGTGGCGCTCGAGGACCGAGTCAAGCAGCTGCATGA 1431
Db 3601 GACACCAATGGAAGCTTTCTGAGGTGGCGCTCGAGGACCGAGTCAAGCAGCTGCATGA 3660
QY 1432 AGCCACAGGAGACTTTGGTCCAGCATCTCAGCAGCTTTCTTTCCAGCTCTGTCAGGGTCC 1491
Db 3661 AGCCACAGGAGACTTTGGTCCAGCATCTCAGCAGCTTTCTTTCCAGCTCTGTCAGGGTCC 3720
QY 1492 CTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTTACTATATCAACCAGAGCTCAAAC 1551
Db 3721 CTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTTACTATATCAACCAGAGCTCAAAC 3780
QY 1552 ACTCTCTGGGACCATCCCAAAATGACAGAGCTCTACCACTTTTACTGACCTCAATAA 1611
Db 3781 ACTCTCTGGGACCATCCCAAAATGACAGAGCTCTACCACTTTTACTGACCTCAATAA 3840
QY 1612 TGTCAGATTCTCAGCTTATAGGACTGCCATGAAGACTCCGAAAGACTGCAAGAGGCCCTTTG 1671

Db 3841 TGTGAGATTCTCAGCTTATAGGACTGCAATGAAACTCGAAGACTGCAAGAGGCCCTTTG 3900
QY 1672 CTTGGATCTTTGAGCCTGTGAGCTGCAATGATGATGCTTGGACCCAGCACAACCTCAAGCA 1731
Db 3901 CTTGGATCTTTGAGCCTGTGAGCTGCAATGATGATGCTTGGACCCAGCACAACCTCAAGCA 3960
QY 1732 AAATGACACGCCATCGATATCTGATGATATTAATTTGTTGACCACTATTATGACCG 1791
Db 3961 AAATGACACGCCATCGATATCTGATGATATTAATTTGTTGACCACTATTATGACCG 4020
QY 1792 CTTGGAGACAGACACAACAATTTGGTCAAGTCCCTCTCTCGTGGATGATGCTGAA 1851
Db 4021 CTTGGAGACAGACACAACAATTTGGTCAAGTCCCTCTCTCGTGGATGATGCTGAA 4080
QY 1852 CTTGGCTCTGAATGTTTATGATACGGGACGACAGAGAGATCCGCTGCTGCTTTAA 1911
Db 4081 CTTGGCTCTGAATGTTTATGATACGGGACGACAGAGAGATCCGCTGCTGCTTTAA 4140
QY 1912 AACTGGCATCATTTCCCTGTGTAAAGACACATTTGGAGACAAGTACAGATACCTTTCAA 1971
Db 4141 AACTGGCATCATTTCCCTGTGTAAAGACACATTTGGAGACAAGTACAGATACCTTTCAA 4200
QY 1972 GCAAGTGGCAAGTTCAACAGGATTTTGTACACCGCCAGGCTGGGCTCTCTGCAATGA 2031
Db 4201 GCAAGTGGCAAGTTCAACAGGATTTTGTACACCGCCAGGCTGGGCTCTCTGCAATGA 4260
QY 2032 TTCATACAA 2041
Db 4261 TTCATACAA 4270

RESULT 14

US-09-845-416-2
; Sequence 2, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4182
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-2

Query Match 66.6%; Score 1359; DB 12; Length 4182;
Best Local Similarity 75.3%; Pred. No. 0;
Matches 2041; Conservative 0; Mismatches 0; Indels 672; Gaps 1;

QY 1 TCCCTTACAGCATTTGGAAGCTCTCTGAGAGACAAGTCAATTTGGCAGTCTCATGTGAGGAGAG 60
Db 960 TCCCTTACAGCATTTGGAAGCTCTCTGAGAGACAAGTCAATTTGGCAGTCTCATGTGAGGAG 1019
QY 61 TGAAGTAAACCTCGACCGTTATCAAAACAGCTTTAGAGAGAAATATTATCGTGGCTCTCTTC 120
Db 1020 TGAAGTAAACCTCGACCGTTATCAAAACAGCTTTAGAGAGAAATATTATCGTGGCTCTCTTC 1079
QY 121 TCTGAGGACACATTTGCAAGCACAAGGAGAGATTTCTTATGATGTGGAAGTGGTGAAGA 180
Db 1080 TCTGAGGACACATTTGCAAGCACAAGGAGAGATTTCTTATGATGTGGAAGTGGTGAAGA 1139
QY 181 CCAGTTTCTACTCATGAGGGGTACATGATGATTTGACAGCCATCATGAGGCCGGGTGG 240
Db 1140 CCAGTTTCTACTCATGAGGGGTACATGATGATTTGACAGCCATCATGAGGCCGGGTGG 1199

QY	241	TAATATTCTACAAATTGGGAATAGCTGATGGAAACAGAGAAAATATACAGAAATGAAGA	300
Db	1200	TAATATTCTACAAATTGGGAATAGCTGATGGAAACAGAGAAAATATACAGAAATGAAGA	1259
QY	301	AACTGAAGTACAGAGCAGATGAATCTCTTAATTTCAAGATGGGAATGCTCAGGGTAGC	360
Db	1260	AACTGAAGTACAGAGCAGATGAATCTCTTAATTTCAAGATGGGAATGCTCAGGGTAGC	1319
QY	361	TAGCATGGAAACAAACAAATTTACATAGATCTTTAATGGATCTCCAGAATCAGAAACT	420
Db	1320	TAGCATGGAAACAAACAAATTTACATAGATCTTTAATGGATCTCCAGAATCAGAACT	1379
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Db	1620	AGATCGATGGCAACATCTCTAGATGGACAGAAAGCCGCTGGTCTCTTTTACAAGA---	1679
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QY	718	-----	717
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Db	2040	AAAGTTTCTTGCTGGCTTACAGAAGCTGAACAACTGCCAATCTCTTACAGGATGCTAC	2099
QY	718	-----	717
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QY	718	-----	717
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QY	718	-----	717

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D5	2340	TTTGGAAAGCAGTTCTTGACAGTGGAAAGCGTCTGCACCTTTCTCTGCAGAACTCTCTGGT	2399
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QY	829	AGCAGTTTCAAGACAGAACGATGTACATATAGGCGCTTCAAGAGGGAATTGAAAACTAAAGA	888
D5	2460	AGCAGTTTCAAGACAGAACGATGTACATATAGGCGCTTCAAGAGGGAATTGAAAACTAAAGA	2519
QY	889	ACCTGTAACTCATGAGTACTTCTGAGACTGTACAAATATTTCTGACAGACGACCTTTGGA	948
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D5	2580	AGGACTAGAAAACTCTACAGGAGGCCAGAGAGTGTCTCTGAGGAGAGAGCCACAA	2639
QY	1009	TGTCACTCGGCTTCTACGAAAAAGCGCTGAGGAGTGTCAATACTGAGTGGGAAAAATTTGAA	1068
D5	2640	TGTCACTCGGCTTCTACGAAAAAGCGCTGAGGAGTGTCAATACTGAGTGGGAAAAATTTGAA	2699
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D5	2760	TCAGAGGCCACGGATGAGCTGGACCTCAAGCTGGCCAAAGCTGAGTGTATCAAGGGATC	2819
QY	1189	CTGGAGCCCGCTGGGCGATPCTCTCATTTGACTCTCTCCAAAGATCACTCGAGAAAGTCAA	1248
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Job time : 501.352 secs

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OM nucleic - nucleic search, using sw model

Run on: September 23, 2003, 21:08:50 ; Search time 110.733 Seconds
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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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5	490.6	24.5	6045	4	US-09-091-501B-7
6	490.6	24.5	10320	4	US-09-091-501B-9
7	79.4	4.0	200	4	US-09-091-501B-5
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C 15	42.4	2.1	2704	3	US-08-857-076-44
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17	39.4	2.0	2223	1	US-08-257-073-4
18	38.8	1.9	289	3	US-09-007-005-17
19	38.8	1.9	289	3	US-09-244-796-17
20	38.8	1.9	1821	4	US-08-477-831C-1
21	38.8	1.9	1885	4	US-08-477-831C-9
22	38.8	1.9	1896	4	US-08-477-831C-10
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24	38.8	1.9	2368	4	US-08-477-831C-13
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26	38.4	1.9	7672	4	US-09-220-132-24
27	38.2	1.9	428	4	US-09-668-313A-3

28	38.2	1.9	1848	4	US-09-134-001C-447	Sequence 447, Appl
29	38.2	1.9	4439	4	US-09-668-313A-17	Sequence 17, Appl
C 30	37.4	1.9	2082	3	US-08-985-335-4	Sequence 4, Appl
C 31	37.4	1.9	2082	3	US-09-410-372-4	Sequence 4, Appl
C 32	37.2	1.9	2915	4	US-09-336-115C-5	Sequence 5, Appl
C 33	37.2	1.9	3902	4	US-08-961-527-212	Sequence 212, App
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35	36	1.8	608	3	US-09-385-982-236	Sequence 236, App
36	36	1.8	2763	1	US-08-248-466B-2	Sequence 2, Appl
37	35.8	1.8	633	4	US-09-134-001C-578	Sequence 578, App
38	35.6	1.8	2447	2	US-09-014-969-14	Sequence 14, Appl
39	35.6	1.8	4868	1	US-08-139-937-12	Sequence 12, Appl
40	35.6	1.8	4868	5	PCT-US93-11310-12	Sequence 12, Appl
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44	35.6	1.8	10136	5	PCT-US95-16216-2	Sequence 2, Appl
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ALIGNMENTS

RESULT 1
US-09-687-875A-1
; Sequence 1, Application US/09687875A
; Patent No. 6544786
; GENERAL INFORMATION:
; APPLICANT: Xiao, Paul
; TITLE OF INVENTION: METHOD AND VECTOR FOR PRODUCING AND TRANSFERRING TRANS-SPLIC
; FILE REFERENCE: 00792
; CURRENT APPLICATION NUMBER: US/09/687,875A
; PRIOR FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: 60/158,868
; PRIOR FILING DATE: 1999-10-15
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 5952
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc-feature
; LOCATION: (2897)..(2898)
; OTHER INFORMATION: S4 junction site
; NAME/KEY: misc-feature
; LOCATION: (3198)..(3199)
; OTHER INFORMATION: S2 junction site
US-09-687-875A-1

Query Match 50.1%; Score 1002.6; DB 4; Length 5952;
Best Local Similarity 99.6%; Pred. No. 4.2e-301;
Matches 1005; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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4159 ACAGAGCTCTACCACTTCTAGCTGACCTGATATATGTCAGATTCACACTTATAGGACT 4218
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4639 GGTGAAGTGTATCTTTGGGGCAGTACATTTGAGCCCAAGTGTCCGGA 4687

RESULT 2
US-09-484-970B-60
; Sequence 60, Application US/09484970B
; Patent No. 6426186
; GENERAL INFORMATION:

; APPLICANT: Jones, Karen A.
; APPLICANT: Volkmut, Wayne
; APPLICANT: Walker, Michael G.
; TITLE OF INVENTION: BONE REMODELING GENES
; FILE REFERENCE: PB-0014 US
; CURRENT APPLICATION NUMBER: US/09/484,970B
; CURRENT FILING DATE: 2000-01-18
; NUMBER OF SEQ ID NOS: 172
; SOFTWARE: PERL Program
; SEQ ID NO 60
; LENGTH: 13977
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. 6426186 229357.110B1
; NAME/KEY: unsure

; LOCATION: 11721-11761, 12294, 13969
; OTHER INFORMATION: a, t, c, g, or other
US-09-484-970B-60
Query Match 49.6%; Score 991.6; DB 4; Length 13977;
Best Local Similarity 99.5%; Pred. No. 2e-297;
Matches 1005; Conservative 0; Mismatches 4; Indels 1; Gaps 1;
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Qy 1653 CAGATTATTAATTTGTTGACCACTATTTATGACCGCTTGGAGCAAGACAGCAACAATTTG 1712
Db 9653 CAGATTATTAATTTGTTGACCACTATTTATGACCGCTTGGAGCAAGACAGCAACAATTTG 9712
Qy 1713 GTCAACGTCCTCTCTCGTGGATATGTCGTAACCTGCTGTAATGTTTATGATACG 1772
Db 9713 GTCAACGTCCTCTCTCGTGGATATGTCGTAACCTGCTGTAATGTTTATGATACG 9772
Qy 1773 GGACGAACAGGAGGATTCCTGCTGCTCTTTTAAACTGGGATATCTTCCCTGTGTA 1832
Db 9773 GGACGAACAGGAGGATTCCTGCTGCTCTTTTAAACTGGGATATCTTCCCTGTGTA 9832
Qy 1833 GCACATTTGGAAGCAAGTACAGATACCTTTTCAAGCAAGTGCACAGTTTCAACAGATT 1892
Db 9833 GCACATTTGGAAGCAAGTACAGATACCTTTTCAAGCAAGTGCACAGTTTCAACAGATT 9892
Qy 1893 TGTGACCAAGCAGGCTGGGCTTCTGTCATGATTTCTATCCAAATTCACAGAGCTT 1951
Db 9893 TGTGACCAAGCAGGCTGGGCTTCTGTCATGATTTCTATCCAAATTCACAGAGCTT 9952
Qy 1952 GGTGAAGTGTATCTTTGGGGCAGTAAACATTCAGCCCAAGTGTCCGGA 2001

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Db      9953 GGGTGAAGTTCATCCTTTGGGGGCGCAATTAACATTGACCCAAAGTGTCCGGA 10002
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RESULT 3
US-08-836-022A-10/c
; Sequence 10, Application US/08836022A
; Patent No. 6001557
; GENERAL INFORMATION:
; APPLICANT: Trustees of the University of Pennsylvania
; APPLICANT: Wilson, James M.
; APPLICANT: Fisher, Krishna J.
; APPLICANT: Chen, Shu-Jen
; APPLICANT: Weitzman, Matthew
; TITLE OF INVENTION: Improved Adenovirus Virus and
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Howson and Howson
; STREET: Spring House Corporate Cntr, P O Box 457
; CITY: Spring House
; STATE: Pennsylvania
; COUNTRY: USA
; ZIP: 19477
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent in Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/836,022A
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION NUMBER: US 08/331,381
; FILING DATE: 28-OCT-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Bak, Mary E.
; REGISTRATION NUMBER: 31,215
; REFERENCE/DOCKET NUMBER: GNVEN.008PCT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 215-540-9200
; TELEFAX: 215-540-5818
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 19307 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: unknown
; MOLECULE TYPE: cdna
; US-08-836-022A-10

Query Match      43.5%; Score 869.8; DB 3; Length 19307;
Best Local Similarity 91.4%; Pred. No. 2e-259;
Matches 922; Conservative 0; Mismatches 87; Indels 0; Gaps 0;

QY      993 ACAGACAGACGACCTTGAAGACTCCAGGACTCAAGAGGCGCAGGATGAGTGGACCTC 1052
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Db      5701 ATAGATGAGCTCTTGAAGACTCCAGGACTCCAGGAGCTGCCATGATGAGTGGACCTC 5642
      |||
QY      1053 AAGCTCGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCGTTGGCGGATCTCCTCAT 1112
      |||
Db      5641 AAGTGGCCCAAGCTGAGGTGATCAAGGGATCCTGGCAGCCGTTGGCGGATCTCCTCAT 5582
      |||
QY      1113 GACTCTCTCCAGATCACCCTCGAAGACTCAAGGACTTCGAGAGAAATGGGCTCTG 1172
      |||
Db      5581 GACTCTCTCCAGATCACCCTTGAAGAGTCAAGGACTTCGAGAGAAATGGGCTCTG 5522
      |||
QY      1173 AAGAGAGAGCTGAGCGCAGCTCAATGACTCTGCGCAGCTTACCATTTGGGCATTCAG 1232
      |||
Db      5521 AAGAGAGAGTCAATGCTGTCATGACCTTGGCAGCTGACCTGACCATCTGGCATTGAG 5462
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QY      1233 CTCTCACCCTATACCTCAGCACTCTGGAAGACCTTGAACACAGATGGAAGCTTCTGCGAG 1292
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Db      5461 CTCTCACCCTATACCTCAGCACTTTGGAAGATCTGAATACCATGAGGCTTCTACAG 5402
QY      1293 GTGGCCCTGCGAGAGCGAGTCCAGGAGCTCATGAAGCCACAGGACTTTTGTCTCAGCA 1352
      |||
Db      5401 GTGGCTGTGGAGGACCGGTGTGAGACAGTCTCATGAAGCCACAGGACTTTGTCCTGCA 5342
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QY      1353 TCTCAGCACTTTCTTTCCACGCTCTGTCCAGGCTCCTGGGAGAGAGCCATCTCGCCAAAC 1412
      |||
Db      5341 TCCCAGCACTTCTTTCCACGCTTCAGTTCCAGGCTCCTGGGAGAGAGCCATCTCAACAAAC 5282
      |||
QY      1413 AAGTGGCCCTACTATATCAACAGAGAGACTCAACAGACTTGTCTGGGAGGAGGCTCCCAAAATG 1472
      |||
Db      5281 AAGTGGCCCTACTATATCAACAGAGAGACTCAACAGACTTGTCTGGGAGGAGGCTCCCAAAATG 5222
      |||
QY      1473 ACAGAGCTCTTACCAAGCTTTTACGCTGACCTGAATAATGTCAGATTCTCAGCTTATAGACT 1532
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Db      5221 ACAGAGCTCTTACCAAGCTTTTACGCTGACCTGAATAATGTCAGATTCTCAGCTTATAGACT 5162
      |||
QY      1533 GCCATGAAGCTCCGAAGACTGCGAAGGCTCCAGAGGCTCCTGGGAGGAGGCTCCGCGATAGACT 1592
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Db      5161 GCCATGAAGCTCCGAAGGCTCCAGAGGCTCCTGGGAGGAGGCTCCTGGGATCTCTTGGCTGTGAGCT 5102
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QY      1593 GCATGTGATGCTTGGAGCAGCAGCAACCTCAAGCAAAATGACAGCCCATGGATATCCTCG 1652
      |||
Db      5101 GCATGTGATGCTTGGAGCAGCAGCAGCAACCTCAAGCAAAATGACAGCCCATGGATATCCTCG 5042
      |||
QY      1653 CAGATTATTAATTTGTTGACCACTATTATTATGACCGCTCGAGCAAGAGCAGCAACAATTTG 1712
      |||
Db      5041 CAGATAATTAATTTGTTGACCACTATTATTATGACCGCTCGAGCAAGAGCAGCAACAATTTG 4982
      |||
QY      1713 GTCACAGCTCCTCTCTGCGTGGATATGTCGTAAGTGGCTGCTCAATGTTTATGATAG 1772
      |||
Db      4981 GTCACAGCTCCTCTCTGCGTGGATATGTCGTAAGTGGCTGCTCAATGTTTATGATAG 4922
      |||
QY      1773 GGAGCAACAGGAGGAGGATCCGCTCTCTCTCTTTTAAAGTGGCATCATTTCCCTGTGTAAA 1832
      |||
Db      4921 GGAGCAACAGGAGGAGGATCCGCTCTCTCTCTTTTAAAGTGGCATCATTTCTCTGTGTAAA 4862
      |||
QY      1833 GCACATTTGGAAGAGAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGGATTT 1892
      |||
Db      4861 GCACATTTGGAAGAGAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCACAGGATTT 4802
      |||
QY      1893 TGTGACACAGCGAGGCTGGGCTCCTCTCTGATGATCTATCCAAATTCACAGAGACTTG 1952
      |||
Db      4801 TGTGACACAGCGAGGCTGGGCTCCTCTCTGATGATCTATCCAAATTCACAGAGACTTG 4742
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QY      1953 GGTGAAGTGTGATCCTTTGGGGGCGAGTAAACATTGAGCCAGTGTCCGGA 2001
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Db      4741 GGTGAAGTGTGATCCTTTGGGGGCGAGTAAACATTGAGCCAGTGTCCGGA 4693
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RESULT 4
US-09-427-048A-10/c
; Sequence 10, Application US/09427048A
; Patent No. 6203975
; GENERAL INFORMATION:
; APPLICANT: Trustees of the University of Pennsylvania
; APPLICANT: Wilson, James M.
; APPLICANT: Fisher, Krishna J.
; APPLICANT: Chen, Shu-Jen
; APPLICANT: Weitzman, Matthew
; TITLE OF INVENTION: Improved Adenovirus Virus and
; Methods of Use Thereof
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Howson and Howson
; STREET: Spring House Corporate Cntr, P O Box 457
; CITY: Spring House
; STATE: Pennsylvania
; COUNTRY: USA
; ZIP: 19477
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk

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Query Match	43.5%;	Score	869.8;	DB	3;	Length	19307;		
Best Local Similarity	91.4%;	Prod.	No. 2e-259;						
Matches	922;	Conservative	0;	Mismatches	87;	Indels	0;	Gaps	0;
QY	993	ACAGCACAGACCCCTTGAAGACTCCAGGAACTTC	AAAGAGCCAGCATGAGCTGAGCTGAC	CTC	1052				
Db									
QY	5701	ATAGATGAAGCTCTTGAAGAGCTCCAGGAACTT	CAGGAAGCTGCCGATGACTGAGCCTC	5642					
Db									
QY	1053	AAGTCGGCCACAGCTGAGGTGATCAAGGGATCCT	TGGCACCCGCTGGGCGATCTCCTCATTT	1112					
Db									
QY	5641	AAGTTGGCCAGCTGAGTGTATCAAGGGATCCT	TGGCACCCAGTGGGGATCTCCTCATTT	5562					
Db									
QY	1113	GACTCTCTCAGATGATCCTCGAGAAAGTCAAGGC	ACTTCGAGGAGAAATTCGGCCTCTG	1172					
Db									
QY	5591	GACTCTCTGCAAGATCATCTTGAAGAAAGTCA	AGGCACACTTGGGGAGAAATTCACACTT	5522					
Db									
QY	1173	AAAGAGAAGCTGAGCCAGCTCATATGACTTGTCT	CGCCAGCTTACCACTTTGGGCATTCAG	1232					
Db									
QY	5521	AAAGAGAAATGTCATCTGTGTCATGACCTTGC	ATATGCACATCAGCTGACCACTGGGCATTCAG	5462					
Db									
QY	1233	CTCTACCCGTATATACTCAGACACTCTGGAAG	ACCTTGAACACCAGATGGAAGTCTTCGAG	1292					
Db									
QY	5461	CTCTACCTTTATACTCAGACACTTTTGAAGAT	CTTGAATACCAGATGGAGGCTTCTACAG	5402					
Db									
QY	1293	GTGGCGTGGAGACCGAGTCAGGAGCTTGCATG	AGGCCACAGGAGCACTTTGGTCCAGCA	1352					
Db									
QY	5401	GTGGCTGTGGAGGACCGTGTACAGACAGCTT	GCATGAAGCCACAGGAGCACTTTGGTCTGCA	5342					
Db									
QY	1353	TCTCAGCACTTCTTTCCAGAGCTGTGCCAGGT	TCCTGGGAGAGAGCCATCTCGCCAAAC	1412					
Db									
QY	5341	TCCCAGCACTTCTTTCCACTTCAGTTCAGGGT	TCCTGGGAGAGAGCACTTCACCAAC	5282					
Db									
QY	1413	AAAGTGCCTTACTATATCAACACGAGACTCAA	ACAACACTTCTGGGACCATCCCCAAATG	1472					
Db									
QY	5281	AAAGTGCCTTACTATATCAACACGAGACTCAA	ACAACACTTCTGGGACCATCCCCAAATG	5222					
Db									
QY	1473	ACAGAGCTCTACAGCTCTTTAGCTGACCTTCA	ATATATGTCAGATTCACACTTATAGAGCT	1532					
Db									
QY	5221	ACAGAGCTCTACAGCTCTTTAGCTGACCTTCA	ATATATGTCAGATTCACACTTATAGAGCT	5162					
Db									
QY	1533	GCCATGAATCCCGAAGACTGCAGAGGCCCTT	GCTTGGGATCTCTTGAGCCTGTCAGCT	1592					
Db									
QY	5161	GCCATGAAGCTCAGAGGCTCCAGAGGCCCTT	GCTTGGGATCTCTTGAGCCTGTCAGCT	5102					
Db									
QY	1593	GCATGTGATGCTTGGACCCAGCAACCTCAA	AGCAAAATGACCAGCCCATGATATCCTG	1652					
Db									

	Query Match	24.5%;	Score 490.6;	DB 4;	Length 6045;
	Best Local Similarity	67.6%;	Pos. No. 9,7e-142;		
	Matches 688;	Conservative	0; Mismatches 329;	Indels 0;	Gaps 0;
QY	995	AAAGAGTCACACAGACCCCTTCAAGAGCTCCAGAGACTTCAGAGGCCACCGGATGACC	1044		
Db	3783	AAAGCAAGTGGACAGGCATTGGAGAACTCAGAGACCTGCAGGAGCTATGGATGACC	3842		
QY	1045	TGGACCTCAAGCTGGCCCAAGCTGAGTGATCAAGGSGATCTTGGCAGCCCGCTGGCGGATC	1104		

Db 3843 TGGAGCGTGACATGAAGAGGAGAGAGTCCGCTCGGGAATGGCTGGAGGCCCGCTGGAGACT 3302
Qy 1105 TCCATATGACTCTCTCCAGATCACTTCGAGAAGTCAAGGCACCTTCGAGAGAAATTTG 1164
Db 3903 TACTCATGACTCGCTCGAGATCACATTTGAARAATCATGGCATTTAGAGAGAAATTTG 3362
Qy 1165 CGCTCTGAAGAGAGAGTGGAGCCAGTCAATGACCTTGTCCGAGCTTACCACTTTGG 1224
Db 3963 CACCAATCACTTTAAAGTTAAAGCGTGAATGATTTATCCAGTCAGCTGTCTCCACTTG 4022
Qy 1225 GATTCAGCTCTACCGGTATAACCTCAGCACTTCGGAGACCTGACACCAAGTGGAGC 1284
Db 4023 ACTGATCCCTCTCTTAAGATGTCGCGCAGCTAGATGACCTTAATATGGATGGAAAC 4082
Qy 1285 TTCTCAGTGGCGCTCGAGGACCGAGTCAAGCTGCGATGAAGCCACAGGACTTTG 1344
Db 4083 TTTTACAGTTTCTGTGATGATCGCTTTAAACAGCTCAGGAAGCCACAGATTTTG 4142
Qy 1345 GTCCAGATCTCAGCACTTTCTTCCAGTCTGTCCAGGTCCCTGGGAGAGGCACTCT 1404
Db 4143 GACCATCTCTCAGCATTTTCTCTCAGTCTGAGTCCAGCTGCGGTGGCAAGATCCATT 4202
Qy 1405 CGCCAAACAAAGTCCCTACTATATCAACACAGAGACTCAACAACTGCTGGGACATC 1464
Db 4203 CACATAAATAAGTCCCTTATACATCAACATCAACACAGACCACTGTGGGACATC 4262
Qy 1465 CCAAAATGAGAGAGCTTACAGCTTTTAGCTGACCTGAATATATGATTCCTCAGCTT 1524
Db 4263 CTAAATGAGGAGACTTTTCAATCCCTGCTGACCTGAATATATGATTCCTCAGCTT 4322
Qy 1525 ATAGGACTGGCATGAATCCGAGAGCTGCAAGAGGCGCTTCTGCTGGATCTCTTGAGCC 1584
Db 4323 ACCGTACAGCAATCAAAATCCGAGACTACAAAGAGCACTATGTTGGATCTCTTAGAGT 4382
Qy 1585 TGTAGCTGATGATGATGCTGCTGGATGATGCTGCTGAATGATGATGATGATGATGAT 1644
Db 4383 TGAGTACAAACAAATGAATTTTCAACACAGCAAGTTGAACCAAAATGACCACTCTCTCA 4442
Qy 1645 ATATCTCAGATTAATTAATGTTGACCACTATTTATGACCGCTGGAGAGAGACACA 1704
Db 4443 GTGTTCCAGATGTCATCACTGCTGACACACACTTATGATGACACTGAGCAATGACATA 4502
Qy 1705 ACAATTTGGTCAAGTCCCTCTCTGCTGGATGATGCTGCTGAATGCTGCTGAATGCTT 1764
Db 4503 AGGACCTGGTCAAGTCCCTCTCTGCTGGATGATGCTGCTGAATGCTGCTGAATGCTT 4562
Qy 1765 ATGATACGGGAGAGAGGAGGATCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1824
Db 4563 ATGACACGGGTCGAAGTGGAAATTTAGAGTGCAGAGTCTGAAGATTTGATTTGCTC 4622
Qy 1825 TGTGTAAGACCATTTTGGAGACAAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAA 1884
Db 4623 TCTCCAAAGGCTCTCTGGAAGAAATACAGATATCTTTAGGAAGTTGGGGGCGGA 4682
Qy 1885 CAGGATTTGACACAGGAGCTGGGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1944
Db 4683 CAGAATGTTGACACAGGAGCTGGGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 4742
Qy 1945 GACATTTGGTGAAGTTGCTATCTTTGGGGGAGTACATTTGAGCCAGTGGCGGA 2001
Db 4743 GGCAGCTAGGTGAAGTACAGCTTTTGGAGGAGTATATTTAGGCTCTAGTTGCTCA 4799

RESULT 6

US-09-091-501B-9
; Sequence 9, Application US/09091501B
; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: Tinsley, Jonathon M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Utrrophin gene expression
; FILE REFERENCE: 620-42
; CURRENT APPLICATION NUMBER: US/09/091,501B

; CURRENT FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: PCT/GB96/03156
; PRIOR FILING DATE: 1996-12-19
; PRIOR APPLICATION NUMBER: GB 9525962.8
; PRIOR FILING DATE: 1995-12-19
; PRIOR APPLICATION NUMBER: GB 9615797.9
; PRIOR FILING DATE: 1996-07-26
; PRIOR APPLICATION NUMBER: GB 9622174.2
; PRIOR FILING DATE: 1996-10-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 10320
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (11)..(10312)
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (724)..(758)
; OTHER INFORMATION: Precise residue is left open
; OTHER INFORMATION: utrophin construct
; OTHER INFORMATION: Description of Artificial Sequence: Full length
; OTHER INFORMATION: utrophin construct

Query Match 24.5%; Score 490.6; DB 4; Length 10320;
Best Local Similarity 67.6%; Pred. No. 1.4e-141;
Matches 688; Conservative 0; Mismatches 329; Indels 0; Gaps 0;

Qy 985 AAAGAGTACAGACAGACCCCTTGAAGACTCCAGGACTTCAAGAGGCCCGATGAGC 1044
Db 8058 AAAGAAAGTGGACAGGACATTTGGAGAACTCAGAGACCTTCAGGAGGCTATGATGACC 8117
Qy 1045 TGGACCTCAAGCTCGCCAGCTGAGGTGATCAAGGATCTCGGAGGCTGCGGCGGATC 1104
Db 8118 TGGAGCGTGACATGAAGGAGGAGAGTCCGTGGGAATGGCTGGAGGAGCT 8177
Qy 1105 TCTCATTTGACTCTCTCCAGATCACTTCGAGAAGTCAAGGACTTCGAGAGAAATTTG 1164
Db 8178 TACTCATGACTCGCTCGAGGATCACATTTGAARAATCATGGCATTTAGAGAGAAATTTG 8237
Qy 1165 CGCTCTGAAGAGAGAGTGGAGCCAGCTCAATGACCTTCGCGGAGCTTACCACTTTGG 1224
Db 8238 CACCAATCACTTTAAGTTAAAGCGTGAATGATTTATCCAGTCAGCTGTCTCCACTTG 8297
Qy 1225 GATTCAGCTCTCAGCGTATAACCTCAGCACTCTGGAAGACCTGACACCAAGTGGAGC 1284
Db 8298 ACTGCACTCCTCTCTAAAGATGCTCTCGCCAGCTAGATGACCTTAATATGGGATGGAAC 8357
Qy 1285 TTCTCAGGTTGGCGCTCGAGGACCGAGTCAAGGAGCTGCAATGAGCCACAGGAGCTTTG 1344
Db 8358 TTTTACAGTTTCTGTGATGATGCTGCTTAAACAGCTTCAGGAGGCCACAGAGATTTG 8417
Qy 1345 GTCCAGATCTCAGCACTTTCTTCCAGTCTGCTGCGGAGTCCCTGGGAGAGGCACTCT 1404
Db 8418 GACCATCTCTCAGCACTTTCTCTACGTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCT 8477
Qy 1405 CGCCAAACAAAGTCCCTACTATATCAACACAGAGACTCAACAACTGCTGGGAGACATC 1464
Db 8478 CACATAAATAAGTGGCTTATTCATCAACCATCAACACAGACCACTGTTGGGAGGACATC 8537
Qy 1465 CCAAAATGACAGAGCTCTACCACTCTTTAGCTGACCTGATTAATATGATTCAGATTTCTCAGCTT 1524
Db 8538 CTAAATGACCGAGCTCTTTTCAATCCCTGCTGACCTGATTAATATGATTTCTGCTGCT 8597
Qy 1525 ATAGGACTGCCATGAAGTCCGAGAGCTGCAAGAGGCGCTTTGCTTGGATCTCTTGGAGC 1584
Db 8598 ACCGTACAGCAATCAAAATCCGAGAGCTACAAAGGAGCTATGTTTGGATCTCTTAGAGT 8657
Qy 1585 TGTAGCTGATGATGATGCTTGGAGGAGGAGCACTTCAGCAAAATGACAGGAGGAGGAG 1644

Db 8658 TGAGTACACAAATGAATTTTCAACACAGCACAAGTTGAACCAAAATGACCGAGTCTCTCA 8717
QY 1645 ATATCTCGAGATTATTAATTTGTTGACCACTATTTATGACCGCTGGAGCAGACACACA 1704
Db 8718 GTGTTCAGATGTCATCAACTGTCTGACAACTTTATGATGCACTTGAGCAAAATGCATA 8777
QY 1705 ACAATTTGGTCAACGTCCTCTCTCGGTGGATATGTCTGAACCTGGCTGAATGTTT 1764
Db 8778 AGGACCTGGTCAACGTTCCATCTGTGTGATATGTCTCAATTTGGTGTCTCAATGTCT 8837
QY 1765 ATGATAGGAGCAGACAGAGGAGATCCGTGTCTCTTTTAAACTGGCATATTTCC 1824
Db 8838 ATGACACGGTCAACGTCGAAATTTAGATGACAGAGTCTGAAGATTGGATTATGTCTC 8897
QY 1825 TGTCTAAGCACAATTTGGAAGCAGTACAGATACCTTTTCAAGCAAGTGGCAGTCTCA 1884
Db 8898 TCTCCAAGTCTCTTGGAGAAATACAGATATCTTTAAGAAAGTTGGGGGCCGA 8957
QY 1885 CAGGATTTTGTACACAGCAGGCTGGGCTCTCTGATGATTTCTATCAAAATCCAA 1944
Db 8958 CAGAAATGTGTACACAGCAGCTGGGCTGTACTTCTATGATCCATCCAGATCCCC 9017
QY 1945 GACAGTTGGTGAAGTTGATCCTTTGGGGCAGTAACTATTGAGCAAGTCTCGGA 2001
Db 9018 GCGAGCTAGTGAAGTAGCAGCTTTTGGAGCAGTAAATATTGAGCTAGTGTTCGCA 9074

RESULT 7

US-09-091-501B-5
; Sequence 5, Application US/09091501B
; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: Tinsley, Jonathon M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Utrophin gene expression
; FILE REFERENCE: 620-42
; CURRENT APPLICATION NUMBER: US/09/091.501B
; PRIOR FILING DATE: 1998-06-18
; PRIOR FILING DATE: 1996-12-19
; PRIOR FILING DATE: 1995-12-19
; PRIOR FILING DATE: 1996-07-26
; PRIOR FILING DATE: 1996-10-24
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 200
; TYPE: DNA
; ORGANISM: Rattus sp.
US-09-091-501B-5
Query Match 4.0%; Score 79.4; DB 4; Length 200;
Best Local Similarity 64.3%; Pred. No. 9e-15;
Matches 119; Conservative 0; Mismatches 66; Indels 0; Gaps 0;
QY 464 CCTAAGCCCAAGTACACACATTAAGTGTCTTCAGAGATCTTAGACAGACAGT 523
Db 16 CCTGCAAAACCTGCTTGAAGACATATAAAGTTTGAAGATGACCTCGAAGCTGAGCAGT 75
QY 524 CAGGTCATTTCTCTCACATCATATGTTGGTGTGATGATGATCTAGTGGAGATCACGC 583
Db 76 GAAGGTGATTCCTTAACTCATATGTTGGTGTGATGATGATGATGATGATGATGATGAT 135
QY 584 AACTGCTGCTTTGGAGACACACTTAAGTATTTGGAGATTCGATGGCAACATCTGTAG 643
Db 136 CACAGCTGTTTGGAGATCACTTACAGAACTGGTGTGAGCGCTGGACAGCTGTATCCG 195
QY 644 ATGGA 648
Db 196 CTGGA 200

RESULT 8

US-09-091-501B-4
; Sequence 4, Application US/09091501B
; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: Tinsley, Jonathon M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Utrophin gene expression
; FILE REFERENCE: 620-42
; CURRENT APPLICATION NUMBER: US/09/091.501B
; CURRENT FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: PCT/GB96/03156
; PRIOR FILING DATE: 1996-12-19
; PRIOR APPLICATION NUMBER: GB 9525962.8
; PRIOR FILING DATE: 1995-12-19
; PRIOR APPLICATION NUMBER: GB 9615797.9
; PRIOR FILING DATE: 1996-07-26
; PRIOR APPLICATION NUMBER: GB 9622174.2
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 200
; TYPE: DNA
; ORGANISM: Mus sp.
US-09-091-501B-4
Query Match 3.9%; Score 78.6; DB 4; Length 200;
Best Local Similarity 62.4%; Pred. No. 1.6e-14;
Matches 123; Conservative 0; Mismatches 74; Indels 0; Gaps 0;
QY 452 TGACTTTGAAGACCTTAACACCCAGTACACACATTAAGTGTCTTCAGAGATCTAGA 511
Db 4 TGACCTGCCCTCCCTGCAGAGCTGCTTCAAGACATATAAAGTTTGCAAAATGACCTTGA 63
QY 512 ACAAGAACAAAGTCAGGGTCAATTTCTCACTCACTGCTGGTGGTGTGATGATGATCTAG 571
Db 64 AGCTGAACAGTGAAGTAAATTCCTTAACATCACTGCTGGTGGTGGTGGTGAACACAG 123
QY 572 TGGAGATCAGCAGCTGCTGCTTTGGAGAACAACTTAAGGTATTGGAGATCGATGGC 631
Db 124 TGGGAGAGTGCCACAGCTCTTCTGGAAGATCACTTACAGAACTGGGTGAGCGCTGAC 183
QY 632 AACATCTCTAGATGGA 648
Db 184 AGCTGATGCCCTGGA 200

RESULT 9

US-09-091-501B-6
; Sequence 6, Application US/09091501B
; Patent No. 6518413
; GENERAL INFORMATION:
; APPLICANT: Tinsley, Jonathon M
; APPLICANT: Davies, Kay E
; TITLE OF INVENTION: Utrophin gene expression
; FILE REFERENCE: 620-42
; CURRENT APPLICATION NUMBER: US/09/091.501B
; PRIOR FILING DATE: 1998-06-18
; PRIOR APPLICATION NUMBER: PCT/GB96/03156
; PRIOR FILING DATE: 1996-12-19
; PRIOR APPLICATION NUMBER: GB 9525962.8
; PRIOR FILING DATE: 1995-12-19
; PRIOR APPLICATION NUMBER: GB 9615797.9
; PRIOR FILING DATE: 1996-07-26
; PRIOR APPLICATION NUMBER: GB 9622174.2
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 200

RESULT 12

US-09-107-532A-1186
 : Sequence 1186, Application US/09107532A
 : Patent No. 6583275
 : GENERAL INFORMATION:
 : APPLICANT: Lynn A Doucette-Stamm and David Bush
 : TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
 : ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
 : NUMBER OF SEQUENCES: 7310
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: GENOME THERAPEUTICS CORPORATION
 : STREET: 100 Beaver Street
 : CITY: Waltham
 : STATE: Massachusetts
 : COUNTRY: USA
 : ZIP: 02354
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: CD/ROM ISO9660
 : COMPUTER: PC
 : OPERATING SYSTEM: <Unknown>
 : SOFTWARE: ASCII
 : CURRENT APPLICATION DATA:
 : APPLICATION NUMBER: US/09/107,532A
 : FILING DATE: 30-Jun-1998
 : PRIOR APPLICATION DATA:
 : APPLICATION NUMBER: 60/085,598
 : FILING DATE: 14 May 1998
 : APPLICATION NUMBER: 60/051571
 : FILING DATE: July 2, 1997
 : ATTORNEY/AGENT INFORMATION:
 : NAME: Ariniello, Pamela Deneke
 : REGISTRATION NUMBER: 40,489
 : REFERENCE/DOCKET NUMBER: GTC-012
 : TELECOMMUNICATION INFORMATION:
 : TELEPHONE: (781)893-5007
 : TELEFAX: (781)893-8277
 : INFORMATION FOR SEQ ID NO: 1186:
 : SEQUENCE CHARACTERISTICS:
 : LENGTH: 1179 base pairs
 : TYPE: nucleic acid
 : STRANDEDNESS: double
 : TOPOLOGY: circular
 : MOLECULE TYPE: DNA (genomic)
 : HYPOTHETICAL: NO
 : ANTI-SENSE: NO
 : ORIGINAL SOURCE:
 : ORGANISM: Enterococcus faecium
 : FEATURE:
 : NAME/KEY: misc_feature
 : LOCATION: (B) LOCATION 1...1179
 : SEQUENCE DESCRIPTION: SEQ ID NO: 1186:
 US-09-107-532A-1186

Query Match 2.1%; Score 42.8; DB 4; Length 1179;
 Best Local Similarity 49.5%; Pred. No. 0.0076;
 Matches 110; Conservative 0; Mismatches 112; Indels 0; Gaps 0;
 US-09-107-532A-1186

QY	353	TTTTAATGATCTCCAGATCGAACTGAAGAGTTGAATGACTGCTAACAAAAACAGA	412
Db	585	TGTTGATCCAGTTCGAGGAAATTGAGAGTCTCGTTGGAGGCTTCCAGCTGGATTAGGAG	644
QY	413	AGAAAGAACAAAGAAATGAGAGAGCCCTCTTGGACCTGATCTTGAAGACCTAAAAAG	472
Db	645	AGATACGATCGAGGAAATTGAGAGTCTCGTTGGAGGCTTCCAGCTGGATTAGGAG	704
QY	473	CCAAATGACAAACATAGTGTCTTCAAGAGATCTAGAACAAAGAACAAAGTCAGGTCAA	532
Db	705	CTACGTACATGGGACACGAAGCTAGATGCCAAATGCCAAGCTGTGGTTAGTATCAA	764
QY	533	TTCTCTCACTACATGTGGTGGTAGTTGATGATCAATCTAGTGG	574
Db	765	TGCCTTTAAGCGGTAGAAATTTGGGGTCGGATTCACTCTGG	806

RESULT 13

US-09-620-312D-69
 : Sequence 69, Application US/09620312D
 : Patent No. 6569662
 : GENERAL INFORMATION:
 : APPLICANT: Tang, Y. Tom
 : APPLICANT: Liu, Chenghua
 : APPLICANT: Asundi, Vinod
 : APPLICANT: Zhang, Jie
 : APPLICANT: Ren, Feiyan
 : APPLICANT: Chen, Rui-hong
 : APPLICANT: Zhao, Qing A.
 : APPLICANT: Wehrman, Tom
 : APPLICANT: Xue, Aidong J.
 : APPLICANT: Yang, Yonghong
 : APPLICANT: Wang, Jian-Rui
 : APPLICANT: Zhou, Ping
 : APPLICANT: Ma, Yundqing
 : APPLICANT: Wang, Dunrui
 : APPLICANT: Wang, Zhiwei
 : APPLICANT: John Willinghast
 : APPLICANT: Drmanac, Radoje T.
 : TITLE OF INVENTION: No. 6569662el Nucleic Acids and
 : FILE OF INVENTION: Polypeptides
 : FILE REFERENCE: 784CIP2B
 : CURRENT APPLICATION NUMBER: US/09/620,312D
 : CURRENT FILING DATE: 2000-07-19
 : PRIOR APPLICATION NUMBER: 09/552,317
 : PRIOR FILING DATE: 2000-04-25
 : PRIOR APPLICATION NUMBER: 09/488,725
 : PRIOR FILING DATE: 2000-01-21
 : NUMBER OF SEQ ID NOS: 1105
 : SOFTWARE: pt_FL_genes Version 1.0
 : SEQ ID NO 69
 : LENGTH: 1690
 : TYPE: DNA
 : ORGANISM: Homo sapiens
 : FEATURE:
 : NAME/KEY: CDS
 : LOCATION: (128)..(1522)
 US-09-620-312D-69

Query Match 2.1%; Score 42.8; DB 4; Length 1690;
 Best Local Similarity 47.9%; Pred. No. 0.0097;
 Matches 156; Conservative 0; Mismatches 167; Indels 3; Gaps 1;
 US-09-620-312D-69

QY	1016	CCAGGAAGTTCAGAGGCCACGATGGAGCTCAAGCTCGCCCAAGCTGAGGTGAT	1075
Db	55	CAAGGAGTTGCACCAGGTGGCGCAGACCTGGAGCAGAGCTGGCATGGGTTTCAGGAGCG	114
QY	1076	CAAGGGA---TCCTGGCAGCCGCTGGGCGATCTCTCTATTGACTCTCTCCAGATCACT	1132
Db	115	GCTGCCACTGGCCATGCACAGAGCAGGCAACGGTTTCAGAGCGGTCCACAGACAT	174
QY	1133	CGAGAAAGTCAAGGCACTTCGAGAGGAAATTCGCCCTCTGAAAGAGAGAGTGAGCCAGT	1192
Db	175	CAAAAGAACACAGGCTCTGCGCGGAGATCCAGGCCATGGCGCCGCTGGAGGAGGT	234
QY	1193	CAATGACTCTCTGCGCCAGCTTACCACCTTTGGGCAITTCAGCTCTCACCGTATAACCTCAG	1252
Db	235	GCTGGAGCGCGGCGCGCTGGCTGCTGCGCAGCCCGAGGAGGAGGAGTGCGCCG	294
QY	1253	CACCTCTGAGAGACTCGAACACAGATGGAACCTTCTCAGGTGGCGCTCGAGGACCGAGT	1312
Db	295	GGGCTCTGGAGCAGCTGCAGAGCGCCTGGGCGCGGACTCGGGAGGCTGCCGAGCGCA	354
QY	1313	CAGGCAGCTCATGAAGCCACACAGG	1338
Db	355	GCAGGTGCTGGACCGCCCTTCCAGG	380

RESULT 14

Query Match 2.1%; Score 42.4; DB 3; Length 2704;
Best Local Similarity 48.4%; Pred. No. 0.018;
Matches 118; Conservative 0; Mismatches 126; Indels 0

Search completed: September 24, 2003, 00:00:54
Job time : 111.9 secs

RESULT 15
US-08-857-076-44/c
; Sequence 44, Application US/08857076C
; Patent No. 6225120
; GENERAL INFORMATION:
; APPLICANT: Ruvkun, Gary
; APPLICANT: Kimura, Koutarou
; APPLICANT: Patterson, Garth
; APPLICANT: Ogg, Scott
; APPLICANT: Paradis, Suzanne
; APPLICANT: Nissenbaum, Heidi
; APPLICANT: Morris, Jason
; APPLICANT: Koweek, Allison
; TITLE OF INVENTION: THERAPEUTIC AND DIAGNOSTIC TOOLS FOR
; TITLE OF INVENTION: IMPAIRED GLUCOSE TOLERANCE CONDITIONS

Result No.	Query			ID	Description
	Score	Match	Length		
1	2001	100.0	3446	12	US-09-845-416-14
2	1990	99.5	4414	12	US-09-845-416-32
3	1593	79.6	3510	12	US-09-845-416-12
4	1593	79.6	4476	12	US-09-845-416-31
5	1263	63.1	3858	12	US-09-845-416-9
6	1263	63.1	4825	12	US-09-845-416-29
7	1263	63.1	4848	12	US-09-845-416-35
8	1263	63.1	5060	12	US-09-845-416-10
9	1251.2	62.5	3531	12	US-09-845-416-36
10	1251.2	62.5	4498	12	US-09-845-416-30
11	1245	62.2	4182	12	US-09-845-416-2
12	1245	62.2	5149	12	US-09-845-416-27
13	1112	55.6	3999	12	US-09-845-416-6
14	1112	55.6	4966	12	US-09-845-416-28
15	1112	55.6	4990	12	US-09-845-416-34
16	1002.6	50.1	1821	12	US-09-845-416-13
					Sequence 12, Appl
					Sequence 32, Appl
					Sequence 12, Appl
					Sequence 31, Appl
					Sequence 9, Appl
					Sequence 29, Appl
					Sequence 35, Appl
					Sequence 36, Appl
					Sequence 10, Appl
					Sequence 30, Appl
					Sequence 2, Appl
					Sequence 27, Appl
					Sequence 6, Appl
					Sequence 28, Appl
					Sequence 34, Appl
					Sequence 13, Appl

Qy 181 GCCCATCAGGCCGGGT

181 GCCCATCAGGGCCGGTTGGTAATATCTACAATTGGAAGTAAGCTGATTGGAACAGG

Matches 2001; Conservative 0; Mismatches 0; Indels 1; Gaps 1;			
QY	1	GGCAGTTCATTGATGGAGAGTGAAGTAACCTGGACCGTTATCAACACAGCTTTACAGAA	60
Db	1757	GGCAGTTCATTGATGGAGAGTGAAGTAACCTGGACCGTTATCAACACAGCTTTAGAGAA	1816
QY	61	GTATTATCGTGGCTTCTTCTGCTGAGGACACATGCAAGCACAAGAGAGATTTCTAAT	120
Db	1817	GTATTATCGTGGCTTCTTCTGCTGAGGACACATGCAAGCACAAGAGAGATTTCTAAT	1876
QY	121	GATGTGGAGTGGTGAAGACACAGTTTATATCTATGAGGGTACATGATGATTTGACA	180
Db	1877	GATGTGGAGTGGTGAAGACACAGTTTATATCTATGAGGGTACATGATGATTTGACA	1936
QY	181	GCCATCATGGGCCGGGTGGTAATTTCTTACAAATGGGAAGTAAAGCTGATTGGAACAGGA	240
Db	1937	GCCATCATGGGCCGGGTGGTAATTTCTTACAAATGGGAAGTAAAGCTGATTGGAACAGGA	1996
QY	241	AAATTATCAGAGATGAAGAACTGAAGTACAGAGCAGATGAATCTCCTAAATTCAGA	300
Db	1997	AAATTATCAGAGATGAAGAACTGAAGTACAGAGCAGATGAATCTCCTAAATTCAGA	2056
QY	301	TGGGAATGCTCAGGGTAGCTAGCATGGAAGAAACAAAGCAATTTACATAGAGTTTAATG	360
Db	2057	TGGGAATGCTCAGGGTAGCTAGCATGGAAGAAACAAAGCAATTTACATAGAGTTTAATG	2116
QY	361	GATCTCCAGATC-GAAACTGNAAGAGTTGAATGATGGCTTCAACAAAAACAGAGAAAGA	419
Db	2117	GATCTCCAGATCAGAAACTGNAAGAGTTGAATGATGGCTTCAACAAAAACAGAGAAAGA	2176
QY	420	ACAAGGAAATGGAGGAGAGCTCTTGACCTGATCTTGAAGACCTAAAGCCCAAGTA	479
Db	2177	ACAAGGAAATGGAGGAGAGCTCTTGACCTGATCTTGAAGACCTAAAGCCCAAGTA	2236
QY	480	CAACACATAGAGTGGCTCAAGAGATCTAGAACAGAACAGTCAAGGCTCAATTCCTC	539
Db	2237	CAACACATAGAGTGGCTCAAGAGATCTAGAACAGAACAGTCAAGGCTCAATTCCTC	2296
QY	540	ACTCACATGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT	599
Db	2297	ACTCACATGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT	2356
QY	600	GAACACATTAAGTATTTGGAGATCGATGGCAAAACATCTGTAGATGGACAGAACCGC	659
Db	2357	GAACACATTAAGTATTTGGAGATCGATGGCAAAACATCTGTAGATGGACAGAACCGC	2416
QY	660	TGGGTCTTTTACAGACATCTCTCAATGGCAAGCTCTTACTGAGAACAGTGGCTT	719
Db	2417	TGGGTCTTTTACAGACATCTCTCTCAATGGCAAGCTCTTACTGAGAACAGTGGCTT	2476
QY	720	TTTAGTGCATGGCTTTCAGAAAAGAGATGCAGTGAACAGATTCACACAACTGGCTT	779
Db	2477	TTTAGTGCATGGCTTTCAGAAAAGAGATGCAGTGAACAGATTCACACAACTGGCTT	2536
QY	780	AAAGATCAAAATGAATGTTATCAAGCTTTCAAAACCTGGCCGTTTAAAGCGGATCA	839
Db	2537	AAAGATCAAAATGAATGTTATCAAGCTTTCAAAACCTGGCCGTTTAAAGCGGATCA	2596
QY	840	GAAGAGAAAAGCAATCCATGGGCAAACTGTTTCACTCAAAACAGATCTTCTTCACCA	899
Db	2597	GAAGAGAAAAGCAATCCATGGGCAAACTGTTTCACTCAAAACAGATCTTCTTCACCA	2656
QY	900	CTGAAGATAAGTCAAGTGAACCAAGAGAGAGATGGCTGATAACTTTGCCCGGTG	959
Db	2657	CTGAAGATAAGTCAAGTGAACCAAGAGAGATGGCTGATAACTTTGCCCGGTG	2716
QY	960	TGGGATTAATTTAGTCCAAAACCTTGAAGAGATACAGACAGACCTTTGAAGATCCAG	1019
Db	2717	TGGGATTAATTTAGTCCAAAACCTTGAAGAGATACAGACAGACCTTTGAAGATCCAG	2776
QY	1020	GAACTTCAAGAGCCACAGGATGAGCTGGACCTCAAGCTCGCCCAAGCTGAGGTGATCAAG	1079
Db	2777	GAACTTCAAGAGCCACAGGATGAGCTGGACCTCAAGCTCGCCCAAGCTGAGGTGATCAAG	2836

QY	1080	GGATCTGGCAGCCCGTGGGCGATCTCCTCATTTGACTCTCTCAAGATCACTCGAGAAA	1139
Db	2837	GGATCTGGCAGCCCGTGGGCGATCTCCTCATTTGACTCTCTCAAGATCACTCGAGAAA	2896
QY	1140	GTCAAGGCACTTCGAGGAGAAATTCGGCTCTGNAAGAGACGTGAGCCAGCTCAATGAC	1199
Db	2897	GTCAAGGCACTTCGAGGAGAAATTCGGCTCTGNAAGAGACGTGAGCCAGCTCAATGAC	2956
QY	1200	CTTGCTGGCAGCTTACCACTTTGGCATTCAGCTCTCACCGTATTAACCTCAGCAGCTG	1259
Db	2957	CTTGCTGGCAGCTTACCACTTTGGCATTCAGCTCTCACCGTATTAACCTCAGCAGCTG	3016
QY	1260	GAAAGACCTGAACACCAAGATGGAAGCTTCTGAGGTGGCTGAGGACCGAGTCAAGCAG	1319
Db	3017	GAAAGACCTGAACACCAAGATGGAAGCTTCTGAGGTGGCTGAGGACCGAGTCAAGCAG	3076
QY	1320	CTGCATGAAGCCCAAGGAGCTTTGGTCCAGCATCTCAGCAGCTTTCTTTCCAGCTCTGTC	1379
Db	3077	CTGCATGAAGCCCAAGGAGCTTTGGTCCAGCATCTCAGCAGCTTTCTTTCCAGCTCTGTC	3136
QY	1380	CAGGTGCTCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTTACTATATCAACAGAG	1439
Db	3137	CAGGTGCTCTGGGAGAGAGCCATCTCGCCAAACAAAGTGCCTTACTATATCAACAGAG	3196
QY	1440	ACTCAAACTGCTGGGAGAGATCCCAAAATGACAGAGCTCTACAGCTTTTACCTGAC	1499
Db	3197	ACTCAAACTGCTGGGAGAGATCCCAAAATGACAGAGCTCTACAGCTTTTACCTGAC	3256
QY	1500	CTGATATATGTCAGATTCAGCTTATAGGACTCCCATGAATCCGAGACTCCAGAGCTCAGAAG	1559
Db	3257	CTGATATATGTCAGATTCAGCTTATAGGACTCCCATGAATCCGAGACTCCAGAGCTCAGAAG	3316
QY	1560	GCCCTTGTCTGGATCTCTTTGAGCTGTCAGCTGCATGTGATGCCTTGAGCCAGCAAC	1619
Db	3317	GCCCTTGTCTGGATCTCTTTGAGCTGTCAGCTGCATGTGATGCCTTGAGCCAGCAAC	3376
QY	1620	CTCAAGCAAAATGACAGCCCATGATATCTCGAGATTTAATTTGTTGACCACTATT	1679
Db	3377	CTCAAGCAAAATGACAGCCCATGATATCTCGAGATTTAATTTGTTGACCACTATT	3436
QY	1680	TATGACCCCTGGAGAGAGACACAACTTTGCTCAAGCTCCCTCTCTGCTGGATGATG	1739
Db	3437	TATGACCCCTGGAGAGAGACACAACTTTGCTCAAGCTCCCTCTCTGCTGGATGATG	3496
QY	1740	TCCTGTAAGTGGCTGCTGATGTTTATGATAGCGAGACAGGAGGATCCGTGCTG	1799
Db	3497	TCCTGTAAGTGGCTGCTGATGTTTATGATAGCGAGACAGGAGGATCCGTGCTG	3556
QY	1800	TCCTTTAAACTGGCATCATTTCCCTGTGTAAACACATTTGGAAGACAAAGTACAGATAC	1859
Db	3557	TCCTTTAAACTGGCATCATTTCCCTGTGTAAACACATTTGGAAGACAAAGTACAGATAC	3616
QY	1860	CTTTTCAAGCAAGTGGAGTTCACAGATTTTGTACCCAGCGCAGCTGGGCTCTCT	1919
Db	3617	CTTTTCAAGCAAGTGGAGTTCACAGATTTTGTACCCAGCGCAGCTGGGCTCTCT	3676
QY	1920	CTGCATGATTTCTATCAAAATTCACAGAGTTGGGTGAAGTTCATCTTTGGGGGAGT	1979
Db	3677	CTGCATGATTTCTATCAAAATTCACAGAGTTGGGTGAAGTTCATCTTTGGGGGAGT	3736
QY	1980	AACATTGAGCCCAAGTGTCCGGA	2001
Db	3737	AACATTGAGCCCAAGTGTCCGGA	3758

RESULT 3
US-09-845-416-12
; Sequence 12, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE

```

; TITLE OF INVENTION:  THEREOF
; FILE REFERENCE:  DE1142
; CURRENT APPLICATION NUMBER:  US/09/845,416
; CURRENT FILING DATE:  2001-04-30
; PRIOR APPLICATION NUMBER:  60/200,777
; PRIOR FILING DATE:  2000-04-28
; NUMBER OF SEQ ID NOS:  36
; SOFTWARE:  PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH:  3510
; TYPE:  DNA
; ORGANISM:  Homo sapiens
US-09-845-416-12

Query Match      79.6%; Score 1593; DB 12; Length 3510;
Best Local Similarity 87.7%; Pred. No. 0;
Matches 1811; Conservative 0; Mismatches 190; Indels 64; Gaps 4;

QY      1  GGCAGTTCATTGATGGAGGTGAAGTAAACCTGGACCGCTTATCAACACGCTTTAGAGAA 60
DB      1  |||||
QY      61  GTATTATCGTGGCTTCTTCTTCGTGTGAGGACACATTGCAAGCACAAAGSAGAGATTTCTTAAT 120
DB      1  |||||
QY      1060  GTATTATCGTGGCTTCTTCTTCGTGTGAGGACACATTGCAAGCACAAAGSAGAGATTTCTTAAT 1119
DB      1  |||||
QY      121  GATGTGGAGATGGTGAAGACCAAGCTTTCATCTCATGAGGGGTACATGATGATTGACA 180
DB      1  |||||
QY      1120  GATGTGGAGATGGTGAAGACCAAGCTTTCATCTCATGAGGGGTACATGATGATTGACA 1179
DB      1  |||||
QY      181  GCCCATCAGGGCGGGTGGTGAATATCTTCAATTTGGGAAGCTAAGCTGATTGGAACAGGA 240
DB      1  |||||
QY      1180  GCCCATCAGGGCGGGTGGTGAATATCTTCAATTTGGGAGTAGCTGATTGGACACAGA 1239
DB      1  |||||
QY      241  AAATATCAGAGATGAGAAACATGGAAGTACAAGAGCAGATGAATCTCCTTAATTCAGA 300
DB      1  |||||
QY      1240  AAATATCAGAGATGAGAAACATGGAAGTACAAGAGCAGATGAATCTCCTTAATTCAGA 1299
DB      1  |||||
QY      301  TGGGAATGCTCAGGGTAGCTAGCATGGAAAAACAACCAATTTACATAGAGTTTAATG 360
DB      1  |||||
QY      1300  TGGGAATGCTCAGGGTAGCTAGCATGGAAAAACAACCAATTTACATAGAGTTTAATG 1359
DB      1  |||||
QY      361  GATCTCCAGATC- GAAACTGAAAGAGTTGAATGACTGGCTTAACAAAAACAGAGAAAGA 419
DB      1  |||||
QY      1360  GATCTCCAGATCAGAAACTGAAAGAGTTGAATGACTGGCTTAACAAAAACAGAGAAAGA 1419
DB      1  |||||
QY      420  ACAAGGAATGGAGSAGAGCCTCTTGACCTGATCTTGAAGACCTTAAGACGCAAGTA 479
DB      1  |||||
QY      1420  ACAAGGAATGGAGSAGAGCCTCTTGACCTGATCTTGAAGACCTTAAGACGCAAGTA 1479
DB      1  |||||
QY      480  CAACACATAAGTGCTTTCAGAGAAGATCTAGAACAGAACAAAGTCAAGGTCATTTCTCTC 539
DB      1  |||||
QY      1480  CAACACATAAGTGCTTTCAGAGAAGATCTAGAACAGAACAAAGTCAAGGTCATTTCTCTC 1539
DB      1  |||||
QY      540  ACTCACATGGTGSTAGTTGATGAATCTAGTGAGATCAGCAACTCTCTGCTTTGAA 599
DB      1  |||||
QY      1540  ACTCACATGGTGSTAGTTGATGAATCTAGTGAGATCAGCAACTCTCTGCTTTGAA 1599
DB      1  |||||
QY      600  GAACAACTAAAGTATTGGGAGATCGATGGCAACATCTCTAGATGGACAGAAACGCGC 659
DB      1  |||||
QY      1600  GAACAACTAAAGTATTGGGAGATCGATGGCAACATCTCTAGATGGACAGAAACGCGC 1659
DB      1  |||||
QY      660  TGGGTTCTTTTACAGACATCCTTCTCAATGGCAAGCTCTTACTGAGAACAGTGCCTT 719
DB      1  |||||
QY      1660  TGGGTTCTTTTACAGACAGTCTTGACAGTGGAAAGCGCTCTGCACTTTCTCTGAGGAA 1719
DB      1  |||||
QY      720  TTTAGTGCATGGCTTTCAGAAAAAGAGATGCAAGTGAACAGATTTCAACAACCTGGCTT 779
DB      1  |||||
QY      1720  CTTCTGTGTGGCTACACTGAAGATGATGAATTAACCGCGCAGGCACCTATTGAGGC 1779
DB      1  |||||
QY      780  AAGATCAAAATGAATGTTATCAAGTCTTCAAAAACCTGGCCGCTTTTAAAGCGGATCTA 839
DB      1  |||||
QY      1780  GACTTTTCCAGAGTTTCAGAGCAAGACGATGATACATAGGCTTTCAGAGGAAATTGAA 1839
DB      1  |||||

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QY 1557 AAGGCCCTTGTGGATCTCTGAGCCTGTCAGCTGCATGTCGCTGGACCGAC 1616
Db 3376 AAGGCCCTTGTGGATCTCTGAGCCTGTCAGCTGCATGTCGCTGGACCGAC 3435
QY 1617 AACCTCAAGCAAAATGACCGCCATCGATATCCTGCAGATTAATTAATGTTGACCACT 1676
Db 3436 AACCTCAAGCAAAATGACCGCCATCGATATCCTGCAGATTAATTAATGTTGACCACT 3495
QY 1677 ATTATGACCGCTGGAGCAAGACACAAATTTGGTCAAGTCCCTCTCTCGTGGAT 1736
Db 3496 ATTATGACCGCTGGAGCAAGACACAAATTTGGTCAAGTCCCTCTCTCGTGGAT 3555
QY 1737 ATGTGCTGAAGTGTCTCAATGTTTATGATACGGGACGACAGAGGAGTCCCTGTC 1796
Db 3556 ATGTGCTGAAGTGTCTCAATGTTTATGATACGGGACGACAGAGGAGTCCCTGTC 3615
QY 1797 CTGTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAGCAAGTACAGA 1856
Db 3616 CTGTCTTTTAAACTGGCATCATTTCCCTGTGTAAAGCACATTTGGAGCAAGTACAGA 3675
QY 1857 TACCTTTCAAGCAAGTGGCAAGTTCACAGAGATTTTGGACCGAGCGAGCTGGGCCTC 1916
Db 3676 TACCTTTCAAGCAAGTGGCAAGTTCACAGAGATTTTGGACCGAGCGAGCTGGGCCTC 3735
QY 1917 CTTCTGCATGATTCATCCAAATCCCAAGACAGTTGGGTGAAGTGCATCCTTTGGGGC 1976
Db 3736 CTTCTGCATGATTCATCCAAATCCCAAGACAGTTGGGTGAAGTGCATCCTTTGGGGC 3795
QY 1977 AGTAACATTGAGCCAAAGTGTCCCGA 2001
Db 3796 AGTAACATTGAGCCAAAGTGTCCCGA 3820

RESULT 5
US-09-845-416-9
; Sequence 9, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 9
; LENGTH: 3858
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-9

Query Match 63.1%; Score 1263; DB 12; Length 3858;
Best Local Similarity 75.3%; Pred. No. 0;
Matches 1816; Conservative 0; Mismatches 185; Indels 412; Gaps 3;

QY 1 GGCAGTTCATTGATGAGAGTGAAGTAAACCTGGACCGTTATCAACAGCTTTAGAGAA 60
Db 1000 GGCAGTTCATTGATGAGAGTGAAGTAAACCTGGACCGTTATCAACAGCTTTAGAGAA 1059
QY 61 GTATTATCGTGGCTTCTTCTGCTGAGGACACATTCACAGCAAGAGGAGATTTCTAAT 120
Db 1060 GTATTATCGTGGCTTCTTCTGCTGAGGACACATTCACAGCAAGAGGAGATTTCTAAT 1119
QY 121 GATGTGAAGTGTGAAGACACAGTTTCATCTCATGAGGGGTACATGATGATTTGACA 180
Db 1120 GATGTGAAGTGTGAAGACACAGTTTCATCTCATGAGGGGTACATGATGATTTGACA 1179
QY 181 GCCCATCAGGCCGGGTGGTAATATCTACAATTTGGGAAGTAAAGCTGATTTGACAGGA 240
Db 1180 GCCCATCAGGCCGGGTGGTAATATCTACAATTTGGGAAGTAAAGCTGATTTGACAGGA 1239
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QY 241 AAATTATCAGAGATGAAGAACTGAAGTACAAAGACAGATGAATCTCTCAATCAAGA 300
Db 1240 AAATTATCAGAGATGAAGAACTGAAGTACAAAGACAGATGAATCTCTCAATCAAGA 1299
QY 301 TGGGAATGCTCAGGTAGCTAGCATGGAAGAAACAAAGCAATTTACATAGAGTTTAAG 360
Db 1300 TGGGAATGCTCAGGTAGCTAGCATGGAAGAAACAAAGCAATTTACATAGAGTTTAAG 1359
QY 361 GATCTCCGAATC - GAAACTGAAAGAGTTGAATGACTGGCTAAACAAACAGAGAAAGA 419
Db 1360 GATCTCCGAATCAGAAACTGAAAGAGTTGAATGACTGGCTAAACAAACAGAGAAAGA 1419
QY 420 ACAGAGAAATGGAGAGAGACCTCTTGGACCTGATCTTTAGACCTTAAACGCCAAGTA 479
Db 1420 ACAGAGAAATGGAGAGAGACCTCTTGGACCTGATCTTTAGACCTTAAACGCCAAGTA 1479
QY 480 CAACAACATAAGTCTTCAAGAGATCTAGAACAGACAGTCAAGGTCATTTCTCTC 539
Db 1480 CAACAACATAAGTCTTCAAGAGATCTAGAACAGACAGTCAAGGTCATTTCTCTC 1539
QY 540 ACTCACATGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 599
Db 1540 ACTCACATGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 1599
QY 600 GAACAACCTTAAGTATTTGGGAGATCGATGGGCAACATCTCTAGATGGACAGAGACCG 659
Db 1600 GAACAACCTTAAGTATTTGGGAGATCGATGGGCAACATCTCTAGATGGACAGAGACCG 1659
QY 660 TGGGTTCTTTTAAAGACATCCTTCTCAAAATGGCAACGCTTACTTGAAGAACAGTGCCTT 719
Db 1660 TGGGTTCTTTTAAAGACATCCTTCTCAAAATGGCAACGCTTACTTGAAGAACAGTGCCTT 1719
QY 720 TTTAGTGCATGGCTTTCAGAAAAAGAGATGAGTGAACAGATTCACACAACTGGCTTT 779
Db 1720 TTTAGTGCATGGCTTTCAGAAAAAGAGATGAGTGAACAGATTCACACAACTGGCTTT 1779
QY 780 A-----AAGATCAAAATGAAATGTTATCAAGTCTTCAAAACTGGCGCTT 824
Db 1780 AAGGAAGGCTCCTAGAGACTCCAGGGAGTAAAGAGCTGTGAACATATGGCAGAC 1839
QY 825 TTAAGAGCGGATCTAGAAAAAGAAAGCAATCCANGGCAAACTGTATTCACTCAACAA 884
Db 1840 CTCAGAGTGAATTTGAAGCTCACACAGATGTTTATCAACAACTGGATGAAACAGCAA 1899
QY 885 GATCTTCTTCAACTGAAGAAATTAAGTCAAGTCAAGGAGAGAGAGATGGCTGGAT 944
Db 1900 AAAATCCTGAGATCCCTGGAAAGTTCGAGTATGATGATGATGATGATGATGATGAT 1959
QY 945 AACCTTGGCGGCTGTTGGGATAATTTAGTCCAAAAACTTGAAGAGAGTACAGCAC----- 999
Db 1960 AACATGACCTTCAAGTGGAGTGAATTCGGAAGAAAGTCTCTCACATAGGTCCCATTTG 2019
QY 1000 ----- 999
Db 2020 GAAGCCAGTTCTGACACAGTGAAGCGCTGTCACCTTCTCTGACAGAACTTCTGGTGG 2079
QY 1000 ----- 999
Db 2080 CTACAGCTGAAGATGATGAATTAAGCCGCGAGGCACTTATGGAGGCGAGCTTCCAGCA 2139
QY 1000 ----- 999
Db 2140 GTTCAGAGCAGACGATGTACATAGGGCTTCAAGAGGGATTTGAAGAACTAAGAACT 2199
QY 1000 ----- 999
Db 2200 GTAATCATGATGACTCTTGAGACTGTACGAATATTTCTGACAGAGAGCGCTTTGGAAGA 2259
QY 1000 ----- 999
Db 2260 CTAGAGAACTCTACAGAGCCAGAGAGTCCCTCTCTGAGAGAGAGCCAGAAAGTCT 2319
```

QY 1000 ----- 999
Db 2320 ACTGGCTTCTACGAAAGCAGCTGAGGAGGTCAATAGTGGGAAAAATTGAACCTG 2379
QY 1000 -----AGACCTTGARAGACTCCAGAACTTCAA 1028
Db 2380 CACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTGAAGACTCCAGAACTTCAA 2439
QY 1029 GAGGCCAGGATGAGCTGGACCTCAAGCTGGCCCAAGCTGAGTGATCAAGGGATCTCTGG 1088
Db 2440 GAGGCCAGGATGAGCTGGACCTCAAGCTGGCCCAAGCTGAGTGATCAAGGGATCTCTGG 2499
QY 1089 GAGCCCTGGGATCTCTCAATGACTCTCCAGATCACTCAAGTCAAGTCAAGGCA 1148
Db 2500 CAGCCCTGGGATCTCTCAATGACTCTCCAGATCACTCAAGTCAAGTCAAGGCA 2559
QY 1149 CTTGAGGAGAAATTCGGCTCTGAAAGAGAACTGAGCAGTCAATGACTCTGCTCGC 1208
Db 2560 CTTGAGGAGAAATTCGGCTCTGAAAGAGAACTGAGCAGTCAATGACTCTGCTCGC 2519
QY 1209 CAGCTTACCACTTTGGGCAATTCAGCTCTCACCGTATTAACCTCAGCAGCTGGAAGACTG 1268
Db 2620 CAGCTTACCACTTTGGGCAATTCAGCTCTCACCGTATTAACCTCAGCAGCTGGAAGACTG 2679
QY 1269 RACACCAGATGGAGCTTCTCAGGTGGCTCGAGACCGAGTCAAGGAGTCAATGAA 1328
Db 2680 RACACCAGATGGAGCTTCTCAGGTGGCTCGAGACCGAGTCAAGGAGTCAATGAA 2739
QY 1329 GCCACAGGAGCTTTGGTCCAGCATCTCAGCAGCTTCTTCCAGCTCTGTCAGGGTCC 1388
Db 2740 GCCACAGGAGCTTTGGTCCAGCATCTCAGCAGCTTCTTCCAGCTCTGTCAGGGTCC 2799
QY 1389 TGGGAGAGAGCTATCTCGCCCAACAAAGTCCCTATATCAACACAGAGACTCAACA 1448
Db 2800 TGGGAGAGAGCTATCTCGCCCAACAAAGTCCCTATATCAACACAGAGACTCAACA 2859
QY 1449 ACTTGTGGGAGCACTCCAAATGACAGAGCTTACAGCTCTTACCTGACTGAAATAT 1508
Db 2860 ACTTGTGGGAGCACTCCAAATGACAGAGCTTACAGCTCTTACCTGACTGAAATAT 2519
QY 1509 CTCAGATCTCAGCTTATAGGACTGCCATGAATCTCCAGAGCTGCAAGGCGCTTTGC 1568
Db 2920 CTCAGATCTCAGCTTATAGGACTGCCATGAATCTCCAGAGCTGCAAGGCGCTTTGC 2979
QY 1569 TTGATCTCTGAGCTGTACCTGATGATGATGATGATGATGATGATGATGATGATGAT 1628
Db 2980 TTGATCTCTGAGCTGTACCTGATGATGATGATGATGATGATGATGATGATGATGAT 3039
QY 1629 AATGACAGCCCATGATATCTGAGATATTAATTTGTTGACCACTATTATGACCGC 1688
Db 3040 AATGACAGCCCATGATATCTGAGATATTAATTTGTTGACCACTATTATGACCGC 3099
QY 1689 CTGAGCAGAGCAGCAGCAATTTGTTGATGATGATGATGATGATGATGATGATGATGAT 1748
Db 3100 CTGAGCAGAGCAGCAGCAATTTGTTGATGATGATGATGATGATGATGATGATGATGAT 3159
QY 1749 TGGCTGTGATATTTATATGATGATGATGATGATGATGATGATGATGATGATGAT 1808
Db 3160 TGGCTGTGATATTTATATGATGATGATGATGATGATGATGATGATGATGATGAT 3219
QY 1809 ACTGGCATCATTTCCCTGTGTAAGCAGATTTGGAACAGATGATGATGATGATGATGAT 1868
Db 3220 ACTGGCATCATTTCCCTGTGTAAGCAGATTTGGAACAGATGATGATGATGATGATGAT 3279
QY 1869 CAAGTGGCAGATTTCAACAGATTTTGTGACCGAGGCTGGGCTCTCTCTCATGAT 1928
Db 3280 CAAGTGGCAGATTTCAACAGATTTTGTGACCGAGGCTGGGCTCTCTCTCATGAT 3339
QY 1929 TCTATCCAAATTCACAGAGTGGTGAAGTGCATCTTTGGGGGAGTAAATTCAG 1988
Db 3340 TCTATCCAAATTCACAGAGTGGTGAAGTGCATCTTTGGGGGAGTAAATTCAG 3399
QY 1989 CCAAGTGTCCGGA 2001

Db 3400 CCAAGTGTCCGGA 3412
RESULT 6
US-09-845-416-29
; Sequence 29, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE OF INVENTION: THEREOF
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845.416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 29
; LENGTH: 4825
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-29
Query Match 63.1%; Score 1263; DB 12; Length 4825;
Best Local Similarity 75.3%; Pred. No. 0;
Matches 1816; Conservative 0; Mismatches 185; Indels 412; Gaps 3;
QY 1 GCGAGTTCATTGATGAGAGTGAAGTAACCTGGACCGTTTCAACACAGCTTTAGAAGAA 60
Db 1757 GCGAGTTCATTGATGAGAGTGAAGTAACCTGGACCGTTTCAACACAGCTTTAGAAGAA 1816
QY 61 GTATTATCTGCGCTTCTTCTGCTGAGCAGACATTCGACAGCAAGAGAGATTTCTAAT 120
Db 1817 GTATTATCTGCGCTTCTTCTGCTGAGCAGACATTCGACAGCAAGAGAGATTTCTAAT 1876
QY 121 GATGTGAATGTGTGAAGACAGCTTCTACTACTGAGGGGTACATGATGATTTGACA 180
Db 1877 GATGTGAATGTGTGAAGACAGCTTCTACTACTGAGGGGTACATGATGATTTGACA 1936
QY 181 CCCATCAGGCGCGTGTGTAATTTCTCAATTTGGGAAGTAAGCTGATTGGAACAGGA 240
Db 1937 GCGCATCAGGCGCGTGTGTAATTTCTCAATTTGGGAAGTAAGCTGATTGGAACAGGA 1996
QY 241 AAATTATCAGAAGATGAAGAACTGAAGTCAAGAGCAGATGAATCTCTTAATTTCAAGA 300
Db 1997 AAATTATCAGAAGATGAAGAACTGAAGTCAAGAGCAGATGAATCTCTTAATTTCAAGA 2056
QY 301 TGGGAATCCCTCAGGCTAGCTAGCATGGAAGAAACAGCAATTTACATAGAGTTTAAATG 360
Db 2057 TGGGAATCCCTCAGGCTAGCTAGCATGGAAGAAACAGCAATTTACATAGAGTTTAAATG 2116
QY 361 GATCTCCGAATC- GAAACTGAAAGAGTTGAATGACTTGGCTAACAAAACAGAGAGAAGA 419
Db 2117 GATCTCCGAATCAGAACTGAAGAGTTGAATGACTTGGCTAACAAAACAGAGAGAAGA 2176
QY 420 ACAAGGAAATGGAAGAGAGCTTGGAGCTGATCTTGAAGAGCTTAAAGAGCTAAAGCAGGA 479
Db 2177 ACAAGGAAATGGAAGAGAGCTTGGAGCTGATCTTGGAGCTTGAAGAGCTAAAGCAGGA 2236
QY 480 CAACACATTAAGCTGCTTCAAGAGATCTAGACAGACAGTCAAGAGCAAGTCAAGTCTCTC 539
Db 2237 CAACACATTAAGCTGCTTCAAGAGATCTAGACAGACAGTCAAGAGCAAGTCAAGTCTCTC 2296
QY 540 ACTCACATGCTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 599
Db 2297 ACTCACATGCTGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2356
QY 600 GAACAACTTAAAGTATTTGGAGATCGATGGGCAACATCTGTAGATGGACAGAGACCCG 659
Db 2357 GAACAACTTAAAGTATTTGGAGATCGATGGGCAACATCTGTAGATGGACAGAGACCCG 2416

QY 660 TGGGTTCTTTTACAGACATCCTTCTCAATGSCAACGCTTCTTACTGAGACAGTGCCTT 719
Db 2417 TGGGTTCTTTTACAGACACTATAGATTACTGCAACAGTTCCTCCCTGGACCTGGAAAG 2476
QY 720 TTTAGTGCATGGCTTTTCAGAAAGAGATGCAAGTGAACAGATTACACAACTTGGCTTT 779
Db 2477 TTTCTTCCCTGGCTTACAGAGCTGAACAACTGCAAGTGCCTTACAGAGTGTACCGT 2536
QY 780 A-----AGATCAAAATGAATGTTATCAAGTCTTCAAAAATGGCGCTT 824
Db 2537 AAGGAAAGGCTCCTAGAGACTCCAAAGGGATAAAGAGCTGATGAACAAATGGCAAGAC 2596
QY 825 TTAAGCGGNTCTGAAGAGAAAGCAATCCATGGGCAAACTCTATTCTACATCAACAA 884
Db 2597 CTCACAGGTGAATTAAGCTCACACAGATGTTATCAACAACTGGATGAAGAACGCCAA 2656
QY 885 GATCTCTTTCAACACTGAAGATAAGTCAAGTCAAGCAGAGAGAGAGAGTGGCTGGAT 944
Db 2657 AAAATCCTGAGATCCCTGGAAGGTTCCGATGATGCAAGTCTGTTACAAAGACGTTGGAT 2716
QY 945 RACTTTGCCCGTGTGGGATTAATTTAGTCCAAAACCTTGAAGAGTACAGCAC 999
Db 2717 AACATGAACCTCAAGTGGAGTGAACCTTCGGAAGAAAGTCTCAACATTAGTCCCATTTG 2776
QY 1000 ----- 999
Db 2777 GAAGCCAGTTCTGACCAGTGAAGGCTCTGCACCTTCTCTGCAAGAACTTCTGCTGG 2836
QY 1000 ----- 999
Db 2837 CTACAGCTGAAGATGATGAATTAAGCCGAGGCACTATTGGAGGAGCTTTCCAGCA 2896
QY 1000 ----- 999
Db 2897 GTTCAGAGCAGAACGATGATATAGGCGCTTCAAGAGGAAATGAAGAACTTAAGACCT 2956
QY 1000 ----- 999
Db 2957 GTAATCATGAGTCTCTGAGACTGTACGAATATTTCTGACAGAGAGCGCTTTGGAAGGA 3016
QY 1000 ----- 999
Db 3017 CTAGAGAACTCTTACAGAGGCCAGAGAGCTGCTCTCTGAGGAGAGAGCCAGAAATGTC 3076
QY 1000 ----- 999
Db 3077 ACTCGGCTTCTACGAAGCAGGCTGAGGAGGTCAATCTCACTGAGTGGGAAATTTGACCTG 3136
QY 1000 -----AGACCTTGAAGACTCCAGAACTCAA 1028
Db 3137 CACTCCGCTGACTGGCAGAGAAAAATAGATGAGAGACCTTGAAGAGCTCCAGGAACTTCAA 3196
QY 1029 GAGGCCAGGATGAGCTGGACCTCAAGCTGCGCAAGCTCAGGTGATCAAGGATCTCTGG 1088
Db 3197 GAGGCCAGGATGAGCTGGACCTCAAGCTGCGCAAGCTCAGGTGATCAAGGATCTCTGG 3256
QY 1089 GAGCCCGTGGCGATCTCTCATTTGACTCTCTCAAGATCACCTCGAGAAATCAAGSCA 1148
Db 3257 GAGCCCGTGGCGATCTCTCATTTGACTCTCTCAAGATCACCTCGAGAAATCAAGSCA 3316
QY 1149 CTTGAGAGAGAAATGGCGCTCTGAAGAGAGAGTGAAGCAAGTCAAGTCAAGCTGCTGCGC 1208
Db 3317 CTTGAGAGAGAAATGGCGCTCTGAAGAGAGAGTGAAGCAAGTCAAGTCAAGCTGCTGCGC 3376
QY 1209 CAGCTTACACTTTGGCATTGAGCTCTCAAGTATCACTCAAGCTCTGAGAGACTGGAAGACTG 1268
Db 3377 CAGCTTACACTTTGGCATTGAGCTCTCAAGTATCACTCAAGCTCTGAGAGACTGGAAGACTG 3436
QY 1269 AACACAGATGAAGCTTCTGCAAGTGGCGCTTCAGAGAGAGTCAAGGAGAGTGCATGAA 1328
Db 3437 AACACAGATGAAGCTTCTGCAAGTGGCGCTTCAGAGAGAGTCAAGGAGAGTGCATGAA 3496
QY 1329 GCCACAGGAGCTTTGGTCCAGCATCTCAGCACTTTCTTTCCAGCTCTGTCACAGGCTCC 1388

Db 3497 GCCACAGGAGCTTTGGTCCAGCATCTCAGCACTTCTTCCAGCTCTGCCAGGCTCC 3556
QY 1389 TGGGAGAGAGCCATCTGCCAAACAAAGTGCCTACTATATCAACACAGAGACTCAACA 1448
Db 3557 TGGGAGAGAGCCATCTGCCAAACAAAGTGCCTACTATATCAACACAGAGACTCAACA 3616
QY 1449 ACTTGTGGGACCATCCCAAAATGACAGAGCTTACCAGTCTTTAGCTGACCTGATATAT 1508
Db 3617 ACTTGTGGGACCATCCCAAAATGACAGAGCTTACCAGTCTTTAGCTGACCTGATATAT 3676
QY 1509 GTCAAGATTTCTCAGCTTATAGAGCTGCCATGAAATCCGAAGACTGCAGAAGGCCCTTGC 1568
Db 3677 GTCAAGATTTCTCAGCTTATAGAGCTGCCATGAAATCCGAAGACTGCAGAAGGCCCTTGC 3736
QY 1569 TTGATCTCTTGGAGCTCTCAGCTGCAAGTGCCTTGGACAGAGACACACCTCAAGCAA 1628
Db 3737 TTGATCTCTTGGAGCTCTCAGCTGCAAGTGCCTTGGACAGAGACACACCTCAAGCAA 3796
QY 1629 AATGACAGCCCATGGATATCTCAGATTAATTAATTTGACCACTATTTATGACCGC 1688
Db 3797 AATGACAGCCCATGGATATCTCAGATTAATTAATTTGACCACTATTTATGACCGC 3856
QY 1689 CTGAGCAAGAGACACAAATTTGGTCAAGTCCCTCTCTGCGTGGATATGCTCTGAAC 1748
Db 3857 CTGAGCAAGAGACACAAATTTGGTCAAGTCCCTCTCTGCGTGGATATGCTCTGAAC 3916
QY 1749 TGGCTGCTGAATGTTATGATACGAGAGCAAGAGGAGGATCCGTCTCTTTTAAA 1808
Db 3917 TGGCTGCTGAATGTTATGATACGAGAGCAAGAGGAGGATCCGTCTCTTTTAAA 3976
QY 1809 ACTGGCATATTTCCCTCTGTAAAGACACATTTGGAAGACAGTACAGATACCTTTTCAAG 1868
Db 3977 ACTGGCATATTTCCCTCTGTAAAGACACATTTGGAAGACAGTACAGATACCTTTTCAAG 4036
QY 1869 CAAGTGCAGATTTCAACAGAGATTTTGTGACAGCAGCAGCTGGGCTCTCTGCAATGAT 1928
Db 4037 CAAGTGCAGATTTCAACAGAGATTTTGTGACAGCAGCAGCTGGGCTCTCTGCAATGAT 4096
QY 1929 TCTATCCAAATTCAGAGAGTGGTGAAGTTGCATCTTTGGGGGAGTAAACATTGAG 1988
Db 4097 TCTATCCAAATTCAGAGAGTGGTGAAGTTGCATCTTTGGGGGAGTAAACATTGAG 4156
QY 1989 CCAAGTGTCCGGA 2001
Db 4157 CCAAGTGTCCGGA 4169

RESULT 7

US-09-845-416-35
; Sequence 35, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DE1142
; CURRENT APPLICATION NUMBER: US/09/845.416
; PRIORITY FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIORITY FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 35
; LENGTH: 4848
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-35

Query Match 63.1%; Score 1263; DB 12; Length 4848;
Best Local Similarity 75.3%; Pred. No. 0;
Matches 1816; Conservative 0; Mismatches 185; Indels 412; Gaps 3;

QY	1	GGCAGTTCATTGATGGAGAGTGAAGTAAACCTGGACCGGTTATCAAAACAGCTTTAGAGAA	60
Db	1780	GGCAGTTCATTGATGGAGAGTGAAGTAAACCTGGACCGGTTATCAAAACAGCTTTAGAGAA	1839
QY	61	GTATTATCGTGGCTCTCTTTCGTCGAGGACACATTCGACGACAGGAGAGATTTCTTAAT	120
Db	1840	GTATTATCGTGGCTCTCTTTCGTCGAGGACACATTCGACGACAGGAGAGATTTCTTAAT	1899
QY	121	GATGTGAAGTGGTGAAGAAGCCAGTTTCATCTCATATGAGGGGTACATGATGATTGGACA	180
Db	1900	GATGTGAAGTGGTGAAGAAGCCAGTTTCATCTCATATGAGGGGTACATGATGATTGGACA	1959
QY	181	GCCCATCAGGCGCGGTGGTGAATTAATTCATCAATTTGGAAGTAACTGATGATTGGACA	240
Db	1960	GCCCATCAGGCGCGGTGGTGAATTAATTCATCAATTTGGAAGTAACTGATGATTGGACA	2019
QY	241	AAATATTACAGAGATCAAGAACTGAAGTACAGAGACAGATGAATCTCCATAATCAAGA	300
Db	2020	AAATATTACAGAGATCAAGAACTGAAGTACAGAGACAGATGAATCTCCATAATCAAGA	2079
QY	301	TGGGAATGCCCTCAGGCTAGCTAGCATGGAAAAACAAGCAATTTACATAGAGTTTAATG	360
Db	2080	TGGGAATGCCCTCAGGCTAGCTAGCATGGAAAAACAAGCAATTTACATAGAGTTTAATG	2139
QY	361	GATCTCCAGATC-GAATCTGAAGAGTGTGAATGACTGGCTAAACAAAACAGAGAGA	419
Db	2140	GATCTCCAGATCTGAAGAGTGTGAATGACTGGCTAAACAAAACAGAGAGAGA	2199
QY	420	ACAAAGAAATGGAGGAAGACCTCTTTGGACCTGATCTTTGAAGACCTTAAACGCCAAGTA	479
Db	2200	ACAAAGAAATGGAGGAAGACCTCTTTGGACCTGATCTTTGAAGACCTTAAACGCCAAGTA	2259
QY	480	CAACACATTAAGTGTCTTCAGAGATCTTAGAACAGAACAGAACAGTTCAGGTCATTTCTC	539
Db	2260	CAACACATTAAGTGTCTTCAGAGATCTTAGAACAGAACAGAACAGTTCAGGTCATTTCTC	2319
QY	540	ACTCACATGTGTGTGTAGTGTGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAA	599
Db	2320	ACTCACATGTGTGTGTAGTGTGAATCTAGTGGAGATCACGCAACTGCTGCTTTGGAA	2379
QY	600	GAACAACTTAAGTATTGGGAGATCGATGGCAACATCTCTAGATGGACAGAGACGC	659
Db	2380	GAACAACTTAAGTATTGGGAGATCGATGGCAACATCTCTAGATGGACAGAGACGC	2439
QY	660	TGGGTTCTTTTACAGACATCCTTCTCAAATGGCAACGCTTACTTGAAGAACAGTGCCTT	719
Db	2440	TGGGTTCTTTTACAGACATCCTTCTCAAATGGCAACGCTTACTTGAAGAACAGTGCCTT	2499
QY	720	TTTAGTCATGCTTTCAGAAAAAGAGATCGAGTGAACAAGATTCACACACTGGCTTT	779
Db	2500	TTTCTGCCGTGCTTACAGAGCTGAACAACTGGCCAATGTCTTACAGATGCTACCGGT	2559
QY	780	A-----AAAGTCAAAATGAAATGTTATCAAGTCTTCAAAAAGTGCCTT	824
Db	2560	AAGGAAGGCTCTAGAGACTCCAGGGAGTAAAGAGCTGATGAACAATGGCAAGAC	2619
QY	825	TTAAAACGGATCTAGAAAAGAAAAGCAATCCATCGGCGAAACTGTATTCTACATAACAA	884
Db	2620	CTCCAGGTTGAATTTGAAGCTCACACAGATGTTTATCAACAACCTTGAATGAACAGCCAA	2679
QY	885	GATCTCTTTTCAACACTGAAGAAATAAGTCAAGTGACCCAGAGACGGAGCATGGTGGAT	944
Db	2680	AAATCTCTGATCCCTGGAGGTTCCGATGATGCAAGTCTGTTTACAAAGACGTTGGAT	2739
QY	945	AACTTTGCCCGGTGGGTAATTTAGTCCAAAACACTTGAAGAAAGATACAGCAC	999
Db	2740	AACATGAATCTCAAGTGGAGTGAATCTCGGAAAAAGTCTCTCAACATTAGGTCCCATTTG	2799
QY	1000	-----AAAGTCAAAATGAAATGTTATCAAGTCTTCAAAAAGTGCCTT	999
Db	2800	GAAGCCAGTCTGACACATGGAAAGCTCTGCACCTTTCTCTGCAGAACCTTCTGTGTGG	2859
QY	1000	-----AAAGTCAAAATGAAATGTTATCAAGTCTTCAAAAAGTGCCTT	999

Db	2860	CTACAGCTGAAGAGATGATGAATTAATTAAGCCGCGAGGCACTATATGGAGGCGACTTTCACGCA	2919
QY	1000	-----	999
Db	2920	GTTCAGAAGCAGACGATGTACATAGGCGCTTCAAGAGGGAATTGAAACTAAAGAACCT	2979
QY	1000	-----	999
Db	2980	GTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCAGCCTTTTGAAGGA	3039
QY	1000	-----	999
Db	3040	CTAGAGAACTCTACAGAGACCCAGAGAGCTGCCTCTCTGAGGAGAGAGCCAGCAATGTC	3099
QY	1000	-----	999
Db	3100	ACTCGGCTTCTACGAAAGCAGGCTGAGGAGTCAATACTGAGTGGGAAAAATTGAACCTG	3159
QY	1000	-----AGACCTTTGAAAGACTCCAGAGACTTCAA	1028
Db	3160	CACCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCCCTTGAAAGACTCCAGAGAACTTCAA	3219
QY	1029	GAGGCCACGATCAGCTGGACCTCAGAGCTGCACCAGCTGAGCTGAGTGATCAAGGATCTCTGG	1088
Db	3220	GAGGCCACGATGAGCTGGACCTCAAGCTGCACCAGCTGAGTGATCAAGGATCTCTGG	3279
QY	1089	CAGCCCTGGGGATCTCCTCATTTGACTCTCTCCAAGATCACCTCCAGAGAACTCAAGGCA	1148
Db	3280	CAGCCGCTGGGCGATCTCCTCATTTGACTCTCTCCAAGATCACCTCCAGAGAACTCAAGGCA	3339
QY	1149	CTTCAGAGAGAAATTTGGCGCTCTGAAAGAGACGTTGAGCCACGTCATGACCTTGCTGCG	1208
Db	3340	CTTCAGAGAGAAATTTGGCGCTCTGAAAGAGACGTTGAGCCACGTCATGACCTTGCTGCG	3399
QY	1209	CAGCTTACCACCTTTGGGCACTTCACTCTCACCGTATAACCTCAGCACTCTGGAAGACCTG	1268
Db	3400	CAGCTTACCACCTTTGGGCACTTCACTCTCACCGTATAACCTCAGCACTCTGGAAGACCTG	3459
QY	1269	AACACAGATGGAAGCTTCTGCAGTTGGCGCTCGAGGACCGAGTCAGGAGCGTGTCATGAA	1328
Db	3460	AACACAGATGGAAGCTTCTGCAGTTGGCGCTCGAGGACCGAGTCAGGAGCGTGTCATGAA	3519
QY	1329	GCCACAGGACTTTGGTCCAGATCTCAGCACTTTCTTCCACGCTCTGTCAGGGTCCC	1388
Db	3520	GCCACAGGACTTTGGTCCAGATCTCAGCACTTTCTTCCACGCTCTGTCAGGGTCCC	3579
QY	1389	TGGGAGAGACCATCTCCCAAGCAAGTGCCTACTATATCAACACAGAGACTCAACA	1448
Db	3580	TGGGAGAGACCATCTCCCAAGCAAGTGCCTACTATATCAACACAGAGACTCAACA	3639
QY	1449	ACTTGTCTGGGACCATCCCAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATAT	1508
Db	3640	ACTTGTCTGGGACCATCCCAAAATGACAGAGCTCTACAGTCTTTAGCTGACCTGAATAT	3699
QY	1509	GTCAAGTCTTCAGCTTATAGACTTGCATGAAACTCCAGAGCTGAGAGAGCCCTTTGC	1568
Db	3700	GTCAAGTCTTCAGCTTATAGACTTGCATGAAACTCCAGAGCTGAGAGAGCCCTTTGC	3759
QY	1569	TTGATCTCTTGAGCTCTCAGCTGTCATGTATGCTTTGGACACGACCAACCTCAAGCAA	1628
Db	3760	TTGATCTCTTGAGCTCTCAGCTGTCATGTATGCTTTGGACACGACCAACCTCAAGCAA	3819
QY	1629	AATGACACGACCATCGGATATCCGTCAGATATTATTTGTTGACCACTATTATGACCGC	1688
Db	3820	AATGACACGACCATCGGATATCCGTCAGATATTATTTGTTGACCACTATTATGACCGC	3879
QY	1689	CTGAGCAGAGACCAACAAATTTGGTCAACGCTCCCTCTCGTGTGATGTATGTCTGAAC	1748
Db	3880	CTGAGCAGAGACCAACAAATTTGGTCAACGCTCCCTCTCGTGTGATGTATGTCTGAAC	3939
QY	1749	TGCTGCTGAAATGTTTATGATPAGGGACGACAGGGAGGATCGCTGCTGCTTTTTAA	1808

Db 3940 TGGCTGCTGAATGTTATGATACAGGAGCAACAGGAGGATCCGTCTCTCTTTTAAA 3999
QY 1809 ACTGCGATCATTTCCCTGTTAAAGCACATTTGGAGAGACAATGACAGTACAGTACCTTTTCAAG 1868
Db 4000 ACTGGCAATCATTTCCCTGTTAAAGCACATTTGGAGAGACAATGACAGTACAGTACCTTTTCAAG 4059
QY 1869 CAAGTGGCAAGTTTCAACAGGATTTTGTACACGCGAGGCTGGGCTCTCTCTCTCATGAT 1928
Db 4060 CAAGTGGCAAGTTTCAACAGGATTTTGTACACGCGAGGCTGGGCTCTCTCTCTCATGAT 4119
QY 1929 TCTATCCAAATTCACAGACAGTTGGGTGAAGTTGCATCTTTGGGGGCGAGTAACATTTGAG 1988
Db 4120 TCTATCCAAATTCACAGACAGTTGGGTGAAGTTGCATCTTTGGGGGCGAGTAACATTTGAG 4179
QY 1989 CCAAGTGTCCGGA 2001
Db 4180 CCAAGTGTCCGGA 4192

RESULT 8
US-09-845-416-36
; Sequence 36, Application US/09845416
; Publication No. US20030171312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; PRIOR FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 36
; LENGTH: 5060
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-36

Query Match 53.1%; Score 1263; DB 12; Length 5060;
Best Local Similarity 75.3%; Pred. No. 0;
Matches 1816; Conservative 0; Mismatches 185; Indels 412; Gaps 3;

QY 1 GGCAGTTCATTGATGAGAGTGAAGTAAACCTGGACCGTTATCAACACAGCTTTAGAAGAA 60
Db 1992 GGCAGTTCATTGATGAGAGTGAAGTAAACCTGGACCGTTATCAACACAGCTTTAGAAGAA 2051

QY 61 GTATTATCGTGGCTTCTTCTCTGAGGACACATTCGACACAAAGGAGATTTCTTAAT 120
Db 2052 GTATTATCGTGGCTTCTTCTCTGAGGACACATTCGACACAAAGGAGATTTCTTAAT 2111

QY 121 GATCTGGNAGTGTGAAGACACAGTTTCATACATCATGAGGGGTACATGATGATTTGACA 180
Db 2112 GATCTGGNAGTGTGAAGACACAGTTTCATACATCATGAGGGGTACATGATGATTTGACA 2171

QY 181 GCCATCAGGCGCGGTGGTAAATTTCTACAAATTTGGGAAGTAAAGTATTTGGACAGGA 240
Db 2172 GCCATCAGGCGCGGTGGTAAATTTCTACAAATTTGGGAAGTAAAGTATTTGGACAGGA 2231

QY 241 AAATATCAGAGATGAAGAAACTGAAGTACAGAGCAGATGAATCTCTAAATTCAGA 300
Db 2232 AAATATCAGAGATGAAGAAACTGAAGTACAGAGCAGATGAATCTCTAAATTCAGA 2291

QY 301 TGGGAATCCCTCAGGCTAGCATGGAATAAAGCAATTTACATAGATTTTAATG 360
Db 2292 TGGGAATCCCTCAGGCTAGCATGGAATAAAGCAATTTACATAGATTTTAATG 2351

QY 361 GATCTCCAGATC-GAAACTGAAAGATTGAATGACTGGCTAACAAAAACAGAGAAAGA 419
Db 2352 GATCTCCAGATCAGAACTGAAGAGTTGAATGACTGGCTAACAAAAACAGAGAAAGA 2411

QY 420 ACAAGGAAATGGAGGAGAGGCTCTTGGACCTGANTTTGAAGACCTAAACGCCAAGTA 479

Db 2412 ACAAGGAAATGAGGAGAGAGGCTCTTGGACCTGATCTTGAAGACCTAAACGCCAAGTA 2471
QY 480 CAACAACATTAAGTGTCTCAAGAGATCTAGACAGACAGAGTCAAGGTCAATTTCTCTC 539
Db 2472 CAACAACATTAAGTGTCTCAAGAGATCTAGACAGACAGAGTCAAGGTCAATTTCTCTC 2531
QY 540 ACTCACATGTGTGTGTAGTGTGAATCTAGTGGAGATCAGCAACTGCTGCTTTGGAA 599
Db 2532 ACTCACATGTGTGTGTAGTGTGAATCTAGTGGAGATCAGCAACTGCTGCTTTGGAA 2591
QY 600 GAACAACATTAAGTGTGGAGATCGATGGGCAACATCTGTAGATGGACAGAAACCCG 659
Db 2592 GAACAACATTAAGTGTGGAGATCGATGGGCAACATCTGTAGATGGACAGAAACCCG 2651
QY 660 TGGGTCTCTTTTCAAGACATCTCTCAATGGCAAGCTTACTGAAGACACATGCGCTT 719
Db 2652 TGGGTCTCTTTTCAAGACATCTAGATGATCTGCAACAGTCTCCCTCGACTGGAAG 2711

QY 720 TTTAGTGCATGGCTTTTCAAGAAAAGAGATGAGTGAACAAGATTCACACAACCTGGCTT 779
Db 2712 TTTCTTGCCTGGCTTACAGACAGCTCAAACTGCCAATGTCTACAGGATCTACCCGT 2771

QY 780 A-----AAGTCAAAATGAAATGTTATCAAGTCTTCAAAAACCTGCCGTT 824
Db 2772 AAGGAAAGGCTCTTAGAGAGCTCCAAAGGAGTAAAGAGCTGATGAACAATGGCAAG 2831

QY 825 TTAAAGCGGATCTAGAAAAGAAAAGCAATCCATGGCAAACTGATTCACTCAACAA 884
Db 2832 CTCGAAGTGAATTTGAAGTCAACATCTTATCAACACCTGGATGAACACAGCAA 2891

QY 885 GATCTTCTTTCAACACTGAAGATAAGTCACTACCCAGAGACGGAAGCATGCTGGAT 944
Db 2892 AAATCTCTGAGATCCCTGGAGGTTCCGATGATGACAGTCTCTTACAAAGAGCTTTGGAT 2951

QY 945 AACTTTGCCCGGTGGTGGGATTAATTTAGTCCAAAACCTTGAAGAAGATGACAGAC----- 999
Db 2952 AACATGAATCTCAAGTGGAGTGAAGTCTCGGAAAAAGTCTCAACATTAGTCTCCATTTG 3011

QY 1000 ----- 999
Db 3012 GAAGCAGTCTTGACACAGTGGAGCGTCTGCACCTTCTCTGAGGAAGTCTTGTTGG 3071

QY 1000 ----- 999
Db 3072 CTACAGCTGAAGATGATGAATTAAGCCGACGACCTTATTGGAGGCGACTTTCCAGCA 3131

QY 1000 ----- 999
Db 3132 GTTCAGAGCAGAACGATGTACATAGGCGCTTCAAGAGGGAATGAAAACCTAAAGAACT 3191

QY 1000 ----- 999
Db 3192 GTAATCATGAGTACTCTTGAGACTGTACGAATATTTCTGACAGAGCGCTTTGGAAGGA 3251

QY 1000 ----- 999
Db 3252 CTAGAGAACTCTACCAGGAGCCAGAGAGTGCCTCTCTGAGAGAGAGCCCGAGATGTC 3311

QY 1000 ----- 999
Db 3312 ACTCGCTTCTACGAAAGCAGGCTGAGGAGGTCAATCTAGTGGGAAAAAATGCAACTG 3371

QY 1000 -----AGACCTTTGAAGACTCCAGGAACTTCAA 1028
Db 3372 CACTCCGCTGACTGGCAGAGAAAAATAGATGAGACCTTTGAAAGACTCCAGGAACCTCAA 3431

QY 1029 GAGGCCAGGATGAGTGGACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGGATCTCTGG 1088
Db 3432 GAGGCCAGGATGAGTGGACCTCAAGCTGCGCAAGCTGAGGTGATCAAGGGATCTCTGG 3491

QY 1089 CAGCCCGTGGGCGATTCCTCTATTGACTCTCTCAAGATCACCTCGAGAAAGTCAAGGCA 1148
Db 1148 CAGCCCGTGGGCGATTCCTCTATTGACTCTCTCAAGATCACCTCGAGAAAGTCAAGGCA 1148

3492	Db	CA	CGCCGCTGGGGGATCTCTCTCATTTGACTCTCTCCAGAGTCACTCTGAGAGAAATCTCAAGCA	3555
1149	QY	CT	TCGAGGAGAAATTTGGCCCTCTGAAAGAGAACGTGTAGCCACAGCTCAATGACCTTTGCTCGC	1208
3552	Db	CT	TCGAGGAGAAATTTGGCCCTCTGAAAGAGAACGTGTAGCCACAGCTCAATGACCTTTGCTCGC	3611
1209	QY	CAG	CTTACACATTTTGGGCAATTCAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTG	1268
3612	Db	CAG	CTTACACATTTTGGGCAATTCAGCTCTCACCGTATTAACCTCAGCACTCTGGAAGACCTG	3671
1269	QY	AA	CACACAGATGGAAGCTTCTGCAGGTGGCCGTGAGGACCGAGTCAAGGCAGCTGCATGAA	1328
3672	Db	AA	CACACAGATGGAAGCTTCTGCAGGTGGCCGTGAGGACCGAGTCAAGGCAGCTGCATGAA	3731
1329	QY	GC	CCACAGGCAATTTGGTTCACAGATCTCAGCACTTTCTTCCAGTCTGTCCAGGGTCCC	1388
3732	Db	GC	CCACAGGCAATTTGGTTCACAGATCTCAGCACTTTCTTCCAGTCTGTCCAGGGTCCC	3791
1389	QY	TG	SGGAGAGACCATCTGCCCAACAAAGTGGCCCTACTATATCAACACAGGACTCAACA	1448
3792	Db	TG	SGGAGAGACCATCTGCCCAACAAAGTGGCCCTACTATATCAACACAGGACTCAACA	3851
1449	QY	AC	TGTGCTGGGACCATCCCAAAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATAT	1508
3852	Db	AC	TGTGCTGGGACCATCCCAAAATGACAGAGCTCTACCAAGTCTTTAGCTGACCTGAATAT	3911
1509	QY	GT	CAGATTTCTCAGCTTATAGAGCTGCCATGAACCTCCGAGACTGCAGAGGCCCTTTGC	1568
3912	Db	GT	CAGATTTCTCAGCTTATAGAGCTGCCATGAACCTCCGAGACTGCAGAGGCCCTTTGC	3971
1569	QY	TT	GGATCTCTTGAGCCTGTCAAGCTGTGATGTGATGCTTTGGACAGACACACCTCAAGCA	1628
3972	Db	TT	GGATCTCTTGAGCCTGTCAAGCTGTGATGTGATGCTTTGGACAGACACACCTCAAGCA	4031
1629	QY	AA	TGACACAGCCATGGATATCCTGTCAGATATTATTTGTTGACCACCTATTATGACCGC	1688
4032	Db	AA	TGACACAGCCATGGATATCCTGTCAGATATTATTTGTTGACCACCTATTATGACCGC	4091
1689	QY	CT	SGACAAAGACCAACAATTTGGTCAACGCTCCCTCTCTCGTGGATATGTCTGTGAAC	1748
4092	Db	CT	SGACAAAGACCAACAATTTGGTCAACGCTCCCTCTCTCGTGGATATGTGTGTGAAC	4151
1749	QY	TG	CTCTGATTTTATGATACGGGACGACAGGAGGATCCGTGTCTCTCTCTTTTAAA	1808
4152	Db	TG	CTCTGATTTTATGATACGGGACGACAGGAGGATCCGTGTCTCTCTCTTTTAAA	4211
1809	QY	AC	TGSCATATTTCCCTGTGTAAGACACATTTTGAAGACAAAGTACAGATACCTTTTCAAG	1868
4212	Db	AC	TGSCATATTTCCCTGTGTAAGACACATTTTGAAGACAAAGTACAGATACCTTTTCAAG	4271
1869	QY	CA	GTGCAAGTTTCAACAGGATTTGTGACCGAGCGGTGGGCCCTTCCTTCTGATGAT	1928
4272	Db	CA	GTGCAAGTTTCAACAGGATTTGTGACCGAGCGGTGGGCCCTTCCTTCTGATGAT	4331
1929	QY	TC	TATCCAAATCCCAAGACAGTGTGGGTGAAGTTGGATCCTTTGGGGCAGTAAACATTGAG	1988
4332	Db	TC	TATCCAAATCCCAAGACAGTGTGGGTGAAGTTGGATCCTTTGGGGCAGTAAACATTGAG	4391
1989	QY	CC	AAGTGTCCGGA 2001	
4392	Db	CC	AAGTGTCCGGA 4404	

RESULT 9

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RES011. 3
US-09-045-416-10
; Sequence 10, Application US/09845416
; Publication No. US2003017132A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DATA SEQUENCE ENCODING
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845416

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2297	DB	GATGTTTATCAACAACCTGGATGAAAGAAAACAGCCAAAANVCTTGAGATTCCTGGAGAGTTCC	2355
582	QY	GCAACTGCTGCTTTGGAAAGAACAACTTAAG---TATTGGGAGATCGATGGGCAAAATC	638
2357	DB	GATGATGCAGTCCCTGTTTACAAGACGCTTTGGGATACATGAACATTCAAGTGGAGTCAACTT	2416
539	QY	TGTAGATGGACAGAGACCGCTGGGTTCTTTTACAAGACATTCCTTCTCAATATGGCAACGT	698
2417	DB	CGAAAAAGTCTCTCAACATAGGTCCCATTTTGGAGCCAGTTCTGACCACTGGAAACGT	2476
699	QY	CTTACTTGAAGACACAGTGCCTTTTACTGCTAGGCTTCAGAAAAAGAACTGCAGTGAAC	758
2477	DB	CTGCACCTTCTCTGCAGGAACTCTGGTGTGGCTACAGCTGAAAGATGATTAAGC	2536
759	QY	AGATTTCACAACTTGGCTTTAAAGATCAAAATGAATGTATCAAGTCTTCAAAAACGT	818
2537	DB	CGCAGGCGACCTATTGGAGCGCACTTCCAGCAGCTTCAGAAAGCAGAACGATGTACATAGG	2596
819	QY	GCGCTTTTAAAGCGGATCTAGAAAAGAAAAGAACTCCATGGGCAAACTGTA-----	871
2597	DB	GCCTTCAGAGGGAATGAAACTTAAGAACTGTATCATGAGTACTCTTGAGACTGTAT	2656
872	QY	-----TTCACTCAAAACAAGATCTTCTTTCAACACTCAAGAAATAAGTCAAGTCAAGC	924
2657	DB	CGAATATTTCTCAGACAGACGCTTTTGGAAAGACTTAGAGAACTCTACCAGAGGCCGAGA	2716
925	QY	AGACGGAAGCATGGCTGA-----TAACTTTCGCCGCT	957
2717	DB	GAGCTGCCTCTGAGGAGAGAGCCAGATGTCACTCGGCTTCTACAAAGCAGAGCTGAG	2776
958	QY	GTTGGGATAATTTAGTCCAAAAACTTGAA-----AAGAGTACA	995
2777	DB	GAGGTCAATACTGAGTGGGAAATTTGAACCTTGCACTCGGCTGACTGGCAGAGAAAAATA	2836
996	QY	GCACAGCCCTTGAAGACTCCAGGAACCTCAAGAGGCCACCGNTGAGCTGAGCTGACCTCAAG	1055
2837	DB	GATGAGCCCTTTGAAGACTCCAGGAACCTCAAGAGGCCACCGNTGAGCTGAGCTGACCTCAAG	2896
1056	QY	CTGCGCAAGCTGAGGTTGATCAAGGGATCCTGGCAGCCCGTTGGCGGATCTCTCATTTGAC	1115
2897	DB	CTGCGCAAGCTGAGTGTATCAAGGATCCTGGCAGCCCGTTGGCGGATCTCTCATTTGAC	2956
1116	QY	TCCTCCAGATCACTCGAGAAAGTCAAGGCACCTTCAGAGAGAAATTCGCGCTCTGAAA	1175
2957	DB	TCCTCCAGATCACTCGAGAAAGTCAAGGCACCTTCAGAGAGAAATTCGCGCTCTGAAA	3016
1176	QY	GAGAACTGAGCCAGCTCAATGACTTGCTCGCCAGCTTACCATTGGGCGCATTCAGCTC	1235
3017	DB	GAGAACTGAGCCAGCTCAATGACTTGCTCGCCAGCTTACCATTGGGCGCATTCAGCTC	3076
1236	QY	TCACCGTATACTCAGACACTCTGGAGACCTTGACACCAGATGGAAAGTCTTCGAGGTG	1295
3077	DB	TCACCGTATACTCAGACACTCTGGAGACCTTGACACCAGATGGAAAGTCTTCGAGGTG	3136
1296	QY	GCGCTCGAGGACCGAGTCAGCAGCTGCATGAAGCCACAGGAGACTTTGGTCCAGCATCT	1355
3137	DB	GCGCTCGAGGACCGAGTCAGCAGCTGCATGAAGCCACAGGAGACTTTGGTCCAGCATCT	3196
1356	QY	CAGCACTTCTTTCACGCTCTGTCAGAGGTTCCTCGGAGAGAGCCATCTCGGCCAAACAAA	1415
3197	DB	CAGCACTTCTTTCACGCTCTGTCAGAGGTTCCTCGGAGAGAGCCATCTCGGCCAAACAAA	3256
1416	QY	GTGCGCTACTATATCAACACAGGACTCAAAACATCTGCTGGGACCATCCCAAAATGACA	1475
3257	DB	GTGCGCTACTATATCAACACAGGACTCAAAACATCTGCTGGGACCATCCCAAAATGACA	3316
1476	QY	GAGCTTACCACTCTTTAGCTTGACCTGAATATGTTCAGATTCCTCAGCTTATAGGACTGCC	1535
3317	DB	GAGCTTACCACTCTTTAGCTTGACCTGAATATGTTCAGATTCCTCAGCTTATAGGACTGCC	3376
1536	QY	ATGAACTCCGAGACTCGCAGAGGCCCTTTGCTTGGATCTCTTGAGCCCTGTCAGCTGCA	1595
3377	DB	ATGAACTCCGAGACTCGCAGAGGCCCTTTGCTTGGATCTCTTGAGCCCTGTCAGCTGCA	3436

RESULT 11
 US-09-845-416-2
 ; Sequence 2, Application US/09845416
 ; Publication No. US20030171312A1
 ; GENERAL INFORMATION:
 ; APPLICANT: XIAO, XIAO
 ; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
 ; TITLE OF INVENTION: THEREOF
 ; FILE REFERENCE: DEL1142
 ; CURRENT APPLICATION NUMBER: US/09/845,416
 ; CURRENT FILING DATE: 2001-04-30
 ; PRIOR APPLICATION NUMBER: 60/200,777
 ; PRIOR FILING DATE: 2000-04-28
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: Patentin Ver. 2.1
 ; SEQ ID NO 2
 ; LENGTH: 4182
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-09-845-416-2

Query Match	62.2%;	Score 1245;	DB 12;	Length 4182;
Best Local Similarity	73.1%;	Prod. No. 0;		
Matches 2001;	Conservative	0;	Mismatches	0;
			Indels	736;
			Gaps	2;
QY	1	GGCAGTTTCATTGATGGAGAGTGAAGTAAACCTCGACCGTTATCAACACGCTTTAGAGAA	60	
Db				
QY	61	GTATATTCGTGGCTTCTTTCTGTGAGGACACATTTCGAAGCAACAGGAGAGATTTCCTAAT	120	
Db				
QY	1060	GTATATTCGTGGCTTCTTTCTGTGAGGACACATTTCGAAGCAACAGGAGAGATTTCCTAAT	1119	
Db				
QY	121	GATGTGAAGTGTGTGAAGACCAACAGTTCATCATCATGAGGGGTACATGATGGATTTGACA	180	
Db				
QY	1120	GATGTGAAGTGTGTGAAGACCAACGTTTCATCATCATGAGGGGTACATGATGGATTTGACA	1179	
Db				
QY	181	GCCCATCAGGCCCGGTTGGTGAATTCTACAATTGGGAAGTAAAGCTGATTGGAAACAGGA	240	
Db				
QY	1180	GCCCATCAGGCCCGGTTGGTGAATTCTACAATTGGGAGTAGCTGANTGGACACAGGA	1239	
Db				
QY	241	AAATTATCAGAAGATGAAGAAACATGAAGTACAAGACGATGAATCTCCTAAATTCTCAAGA	300	
Db				

Db 1240 AATTTATCAGAGATGAAGAACTGAAGTCAAGAGCAGATGAATCTCTTAATTCAGA 1299
QY 301 TGGGAATGCTCAGGCTAGCTAGCATGGAAGCAAGCAANTTTACATPAGATTTAATG 360
Db 1300 TGGGAATGCTCAGGCTAGCTAGCATGGAAGCAAGCAANTTTACATPAGATTTAATG 1359
QY 361 GATCTCCAGAACTC-GAAAGTGAAGAGTTGAATGACTGGCTCAACAAACAGAGAAAGA 419
Db 1360 GATCTCCAGAACTCAGAAAGTGAAGAGTTGAATGACTGGCTCAACAAACAGAGAAAGA 1419
QY 420 ACAAGGAAATGAGAGAGAGCTCTTGGACCTGATCTTGAAGACTTAAAGCCCAAGTA 479
Db 1420 ACAAGGAAATGAGAGAGAGCTCTTGGACCTGATCTTGAAGACTTAAAGCCCAAGTA 1479
QY 480 CAACAACATTAAGTCTTCAAGAGATCTAGAACAAAGCAAGTCAAGGCTCAATCTCTC 539
Db 1480 CAACAACATTAAGTCTTCAAGAGATCTAGAACAAAGCAAGTCAAGGCTCAATCTCTC 1539
QY 540 ACTCACATGGTGGTGTAGTTGATCAATCTAGTGGAGATCAGCAACTGCTGCTTTGGAA 599
Db 1540 ACTCACATGGTGGTGTAGTTGATCAATCTAGTGGAGATCAGCAACTGCTGCTTTGGAA 1599
QY 600 GAACAACATTAAGTATGAGAGATGAGTGGGCAAAACATCTGATAGTGCACAGAGACCCG 659
Db 1600 GAACAACATTAAGTATGAGAGATGAGTGGGCAAAACATCTGATAGTGCACAGAGACCCG 1659
QY 660 TGGGCTCTTTTCAAGACATCTTCTCAATGSCAACGCTTCTACTGAAGAACAGTGCCTT 719
Db 1660 TGGGCTCTTTTCAAGACATCTTCTCAATGSCAACGCTTCTACTGAAGAACAGTGCCTT 1719
QY 720 TTTAGTGCATGGCTTTCAAGAAAGAGATGCAAGTGAACAAAGATTCACACAACTGGCTTT 779
Db 1720 TTTAGTGCATGGCTTTCAAGAAAGAGATGCAAGTGAACAAAGATTCACACAACTGGCTTT 1779
QY 780 AAAGATCAAAATGAATGTTATCAAGTCTTCAAAAGTGGCGCTTTTAAAGCGGATCTA 839
Db 1780 AAAGATCAAAATGAATGTTATCAAGTCTTCAAAAGTGGCGCTTTTAAAGCGGATCTA 1839
QY 840 GAAAGAAAGCAATCCATGGGCAAACTGTATCTACTCAAAAGAGATCTTCTTCAACA 899
Db 1840 GAAAGAAAGCAATCCATGGGCAAACTGTATCTACTCAAAAGAGATCTTCTTCAACA 1899
QY 900 CTGAAGATTAAGTCAAGTACCAGAGAGAGAGAGTGGCTGGATTAATTTGGCCGGTGT 959
Db 1900 CTGAAGATTAAGTCAAGTACCAGAGAGAGAGAGTGGCTGGATTAATTTGGCCGGTGT 1959
QY 960 TGGGATTAATTTAGTCCAAAACCTTCAAAAGAGTACAGCAC ----- 999
Db 1960 TGGGATTAATTTAGTCCAAAACCTTCAAAAGAGTACAGCACATCATAGTACTGCGAA 2019
QY 1000 ----- 999
Db 2020 CAGTTCCCTGGACCTGGAAAAGTTTCTTGGCTTGTACAGAGCTGAAACAACTGCG 2079
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Db 2080 AATCTCTACAGATGCTTACCCTGTAAGAAAGCTCTAGAGACTCCAGGGAGTAAAA 2139
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Db 2140 GAGCTGATGAACAATGGCAGACCTCCAGGTGAATTAAGCTCAGACAGATGTTAT 2199
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Db 2200 CACAACCTGGATGAAAACAGCCAAAAATCTGAGATCCCTGGAAGTTCOGATGATGCA 2259
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QY 1000 ----- 999
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QY 1000 ----- 999
Db 2440 CCTATTGGAGGCACTTTCCAGCAGTTTCAGAGCAGAGAGATGTACATAGGGCTTCAAG 2499
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Db 2560 CTGACAGACAGCCTTTTGGNAGGACTAGAGAAACTCTACAGGAGCCCGCAGAGAGCTGCT 2619
QY 1000 ----- 999
Db 2620 CCTGAGGAGAGAGCCAGCAATGTCACTCGCTTCTPACGAAAGCAGGCTGAGGAGTCAAT 2679
QY 1000 -----AGACC 1004
Db 2680 ACTGAGTGGGAAAAATTTGAACCTCGCTGACTGGCAGAGAAAAATAGATGAGAAC 2739
QY 1005 CTTCAAGAGACTCCAGAACTTCAGAGAGCCACGATGAGCTGGACCTCAGCTCGCCGCA 1064
Db 2740 CTTGAAGAGACTCCAGAACTTCAGAGAGCCACGATGAGCTGGACCTCAGCTCGCCGCA 2799
QY 1085 GCTGAGGTGATCAAGGGATCTCTGACAGCCGCTGGCGATCTCTCAATGACTCTCTCCAA 1124
Db 2800 GCTGAGGTGATCAAGGGATCTCTGACAGCCGCTGGCGATCTCTCAATGACTCTCTCCAA 2859
QY 1125 GATCACTCGAAGAGTCAAGGCACTTCGAGAGAAATTTGGCCCTCTGAAGAGAACGTG 1184
Db 2860 GATCACTCGAAGAGTCAAGGCACTTCGAGAGAAATTTGGCCCTCTGAAGAGAACGTG 2919
QY 1185 AGCCAGCTCAATGACCTTCTGCGCAGCTTACCACCTTTGGGCAITTCAGCTCTCACCGTAT 1244
Db 2920 AGCCAGCTCAATGACCTTCTGCGCAGCTTACCACCTTTGGGCAITTCAGCTCTCACCGTAT 2979
QY 1245 AACCTCAGACCTCTGGAAGACTGAAACACAGATGGAAGCTTCTGCGAGTGGCCGCTGAG 1304
Db 2980 AACCTCAGACCTCTGGAAGACTGAAACACAGATGGAAGCTTCTGCGAGTGGCCGCTGAG 3039
QY 1305 GACCGAGTCAAGCAGCTCATGAAGCCACAGGAGCTTTGGTCCAGCATCTCAGCACTTT 1364
Db 3040 GACCGAGTCAAGCAGCTCATGAAGCCACAGGAGCTTTGGTCCAGCATCTCAGCACTTT 3099
QY 1365 CTTTCCAGCTCTGTCAGGGTCCCTGGGAGAGAGCCATCTGCCCCAAAGAGTGGCCCTAC 1424
Db 3100 CTTTCCAGCTCTGTCAGGGTCCCTGGGAGAGAGCCATCTGCCCCAAAGAGTGGCCCTAC 3159
QY 1425 TATATCAACACAGAGACTCAAGCAACTTCTGGGAGCCATCCCAAAATGACAGAGCTTAC 1484
Db 3160 TATATCAACACAGAGACTCAAGCAACTTCTGGGAGCCATCCCAAAATGACAGAGCTTAC 3219
QY 1485 CAGTCTTTAGCTCAGCTGAATATGTCAGATTTCTAGCTTATAGGACTGCCATGAAGCTC 1544
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QY 1545 CGAAGACTCGAAGGCCCTTTGCTTGGATCTCTGAGCTGTGAGCTGTGAGCTGTGATGCC 1604
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QY 1605 TTGGCCACACAACTCAAGCAAAATGACAGCCATGATATCTCTGAGATTTATAT 1664
Db 3340 TTGGCCACACAACTCAAGCAAAATGACAGCCATGATATCTCTGAGATTTATAT 3399
QY 1665 TGTTTGACCACTATTATGACCCGCTGGAGAGAGACAACTTTGGTCAAGCTCCCT 1724
Db 3400 TGTTTGACCACTATTATGACCCGCTGGAGAGAGACAACTTTGGTCAAGCTCCCT 3459


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: : CURRENT APPLICATION NUMBER: US/09/845,416
: :
: : CURRENT FILING DATE: 2001-04-30
: :
: : PRIOR APPLICATION NUMBER: 60/200,777
: :
: : PRIOR FILING DATE: 2000-04-28
: :
: : NUMBER OF SEQ ID NOS: 36
: :
: : SOFTWARE: PatentIn Ver. 2.1
: : SEQ ID NO 28
: :
: : LENGTH: 4966
: :
: : TYPE: DNA
: :
: : ORGANISM: Homo sapiens
US-09-845-416-28

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Query Match	55.6%;	Score 1112;	DB 12;	Length 4966;
Best Local Similarity	71.1%;	Prod. No. 0;		
Matches 1816;	Conservative	0;	Mismatches 185;	Indels 553; Gaps 4;
QY	1	GGCAGTTTCATTGATGGAGAGTGAAGTAAACCTTGGACCGGTATCAACACAGCTTTACAGAA	60	
Db	1757	GGCAGTTTCATTGATGGAGAGTGAAGTAAACCTTGGACCGGTATCAACACAGCTTTACAGAA	1816	
QY	61	GTATTATCGTGGCTTCTTCTGCTGAGGACACATTTGCAAGCACAAAGGAGAGATTCTTAAT	120	
Db	1817	GTATTATCGTGGCTTCTTCTGCTGAGGACACATTTGCAAGCACAAAGGAGAGATTCTTAAT	1876	
QY	121	GATGTGAAGTGGTGAAGAGACAGCTTTCATCTCATGAGGGGTTCATGATGGAATTGACA	180	
Db	1877	GATGTGAAGTGGTGAAGAGACAGCTTTCATCTCATGAGGGGTTCATGATGGAATTGACA	1936	
QY	181	GCCCATCAGGGCGGGTGGTAAATTCTACAAATTGGGAAGCTTAAGCTTGATGGACAGGA	240	
Db	1937	GCCCATCAGGGCGGGTGGTAAATTCTACAAATTGGGAAGTGAAGCTTGGAACAGGA	1996	
QY	241	AAATTATCAGAAGATGAAGAACCTGAAGTACAGAGCAGATCAATCTCTTAAATCAAGA	300	
Db	1997	AAATTATCAGAAGATGAAGAACCTGAAGTACAGAGCAGATCAATCTCTTAAATCAAGA	2056	
QY	301	TGGGAATGCGCTCAGGGTAGCTAGCATGGGAAAAACAAGCAATTTACATAGAGTTTAAAG	360	
Db	2057	TGGGAATGCGCTCAGGGTAGCTAGCATGGGAAAAACAAGCAATTTACATAGAGTTTAAAG	2116	
QY	361	GATCTCCAGAACT-GAAACTCAAAAGAGTTGAATGACTGGCTACAAAAACAAGAAAGA	419	
Db	2117	GATCTCCAGAACTCAAAAGAGTTGAATGACTGGCTACAAAAACAAGAAAGA	2176	
QY	420	ACAAGGAAAAATGAGGAAGACCTCTTTGGACCTGTATCTTGAAGACCTTAAAAAGCCAAAGTA	479	
Db	2177	ACAAGGAAAAATGAGGAAGACCTCTTTGGACCTGTATCTTGAAGACCTTAAAAAGCCAAAGTA	2236	
QY	480	CACACACATTAAGTGCTTCCAGAGAGATCTTAGAACAGAACAAAGTCAGGGTCAATTCCTC	539	
Db	2237	CAACACACATTAAGTGCTTCCAGAGAGATCTTAGAACAGAACAAAGTCAGGGTCAATTCCTC	2296	
QY	540	ACTCACATGGTGGTGTAGTGAATCTTAGTGGAGATCACGCAACTGCTGCTTTGGAA	599	
Db	2297	ACTCACATGGTGGTGTAGTGAATCTTAGTGGAGATCACGCAACTGCTGCTTTGGAA	2356	
QY	600	GAAACACTTAAGGTATTGGGAGATCGATGGCAACATCTGTAGATGGACAGAAAGCCGC	659	
Db	2357	GAAACACTTAAGGTATTGGGAGATCGATGGCAACATCTGTAGATGGACAGAAAGCCGC	2416	
QY	660	TGGTCTCTTTTACAGAC-----	677	
Db	2417	TGGTCTCTTTTACAGAC-----	2476	
QY	678	-----	677	
Db	2477	CCTACTCAGACTGTACTCTGGTGACACAACTGTGTTACTTAAGGAAAAAGTCCCATCTCC	2536	
QY	678	-----ATCCTCTCTCAATGGCAAGCT	698	
Db	2537	AAACTAGAAATGCCATCTTCCTGATGTTGGAGGTACCTACTCATAGATTCTGCAACAG	2596	
QY	699	CTTACTGAGAAGACAGTGCCTTTTATTAGTGCACTGGCTTTTCAGAAAAAGAAAGTCAAGTGAAC	758	

Db	2597	TTCCCTCGACCTGGAAAGAGTTTCCTGCTTACAGAGCTGAAACACACTGCCAAT	2656
Qy	759	AGATTCCACACAACTGGCTTTA-----AGATCAAAATGAAATGTATCA	803
Db	2657	GTCTACAGGATGCTACCCGTAAAGAAAGGCTCTAGAGAGCTCCAAGGAGTAAAGAG	2716
Qy	804	AGTCTTCAAAACTGGCCGTTTTAAAGCGATCTAGAAAAGAAAGCAATCCATGGC	863
Db	2717	CTGATGAACAATGGCAGACACTCCAGGTGAATTAAGAGCTCACAGATGTTATCAC	2776
Qy	864	AAACTGTATTCACATAACAAGATCTTCTTTCAACACTGAAGAATAAGTCAGTGACCAG	923
Db	2777	AACCTGGATGAACACAGCCAAAATCTTGAGATCCCTGGAAAGCTTCGATGATCGATC	2836
Qy	924	AGACGGAACATGCGTGGATACTTTGGCCGGTGTGGGATAATTTAGTCCAAAACCTT	983
Db	2837	CTGTTACAAAGAGCGTTGGATAACATGAATCTCAAGTGGAGTGAACTCGGAAAAGTCT	2896
Qy	984	GAAGAAGTACAGCAC-----	999
Db	2897	CTCAACATTAGTCCCAITTTGGAGCCAGTCTGACCAGTGGAGCGCTGCACACTTCT	2956
Qy	1000	-----	999
Db	2957	CTGCAGGAACCTTGCTGTGCTACAGCTGAAAGATGATGAATTAAGCCGGCAGCACT	3016
Qy	1000	-----	999
Db	3017	ATTGGAGCGACTTCCAGCAGTTCAGACGACAGAGATGTACATAGGGCCTTCAGAGG	3076
Qy	1000	-----	999
Db	3077	GAATTGAAAACATAAGACCTGTAATCATGAGTACTCTTGAGACTGTACGAATATTCTG	3136
Qy	1000	-----	999
Db	3137	ACAGACGAGCCTTGGAAAGGACTAGAGAACTCTACAGGAGCCAGAGAGTGCCTCT	3196
Qy	1000	-----	999
Db	3197	GAGGAGAGAGCCAGAACTCAGCTCGCTTCTACGAAAGCAGCTGAGGAGGTCAATACT	3256
Qy	1000	-----AGACCTTT1007	
Db	3257	GAGTGGGAAAAATTGAACCTGCATCTCCGCTGACTGGCAGAGAAAAATAGATGAGACCTT	3316
Qy	1008	GAAGACTCCAGGAACCTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCGCCAAGCT	1067
Db	3317	GAAGACTCCAGGAACCTCAAGAGGCCACGGATGAGCTGGACCTCAAGCTGCCCAAGCT	3376
Qy	1068	GAGTGTATCAAGGATPCCTGGACGCCCGTGGCGATPCTCCTATTGACTCTCCCAAGAT	1127
Db	3377	GAGTGTATCAAGGATPCCTGGACGCCCGTGGCGATPCTCCTATTGACTCTCCCAAGAT	3436
Qy	1128	CAGCTCAGAAAGTCAAGGCACTTCGAGGAGAAATTCGGCTCTGAAAGAGAACGTGAGC	1187
Db	3437	CACCTCGAGAAATCAAGGCACTTCGAGGAGAAATTCGGCTCTGAAAGAGAACGTGAGC	3496
Qy	1188	CAGCTCAATGACCTTCTGGCCAGCTTACCACCTTTGGCATTTCAGCTCTCACCGTATAAC	1247
Db	3497	CAGCTCAATGACCTTCTGGCCAGCTTACCACCTTTGGCATTTCAGCTCTCACCGTATAAC	3556
Qy	1248	CTCAGCACTCGAAGACCTGAACACAGATGAAGCTTTCGAGGTGGCCCTCGAGGAC	1307
Db	3557	CTCAGCACTCTGAAGACCTGAACACAGATGAAGCTTTCGAGGTGGCCCTCGAGGAC	3616
Qy	1308	CGAGTCAGGCAGCTGATGAAGCCCAAGGGACTTTGGTCCAGACTCTCAGACATCTTCTT	1367
Db	3617	CGAGTCAGGCAGCTGATGAAGCCCAAGGGACTTTGGTCCAGACTCTCAGACATCTTCTT	3676
Qy	1368	TCCACGCTCTCCAGGGTCCCTGGGAGAGAGCCATCTCGCCAAAAGAGTGCCTACTAT	1427

Db 3677 TCCAGCTCTGTCAGAGGTCCTGGGAGAGAGCCATCTCCGCAAAACAAGTGCCTACTAT 3736
QY 1428 ATCAACACAGAGACTCAACAACACTTGCTGGGACCATCCCAAAATGACAGAGCTCTACCA 1487
Db 3737 ATCAACACAGAGACTCAACAACACTTGCTGGGACCATCCCAAAATGACAGAGCTCTACCA 3796
QY 1488 TCTTTAGCTGACCTGAATATGTCAGATTCCTCAGCTATATAGGACGTCATGAACCTCGA 1547
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QY 1548 AGACTGAGAGAGCCCTTTGCTGATCTCTGAGCCTGTCAGCTGATGATGCTG 1607
Db 3857 AGACTGAGAGAGCCCTTTGCTGATCTCTGAGCCTGTCAGCTGATGATGCTG 3916
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Db 3917 GACCAGCACAACTCAAGCAAAATGACCAAGCCCATGATATCCTCAGATTAATATGT 3976
QY 1668 TTGACCACTATTATGACCGCTGGAGCAAGAGACACAACAATTTGTCACGCTCCCTCTC 1727
Db 3977 TTGACCACTATTATGACCGCTGGAGCAAGAGACACAACAATTTGTCACGCTCCCTCTC 4036
QY 1728 TCGCTGATATGCTGATGCTGCTGATGCTGCTGATGCTGATGCTGATGCTGATGCTG 1787
Db 4037 TCGCTGATATGCTGATGCTGCTGATGCTGCTGATGCTGATGCTGATGCTGATGCTG 4096
QY 1788 ATCCGCTGCTGCTTTTAACTGGCAATATTCCTGCTGTAAGACACATTTGGAGAC 1847
Db 4097 ATCCGCTGCTGCTTTTAACTGGCAATATTCCTGCTGTAAGACACATTTGGAGAC 4156
QY 1848 AASTACAGATACCTTTTCAAGCAAGTGCAAGTTCAACAGGATTTTGTGACCGCAGG 1907
Db 4157 AASTACAGATACCTTTTCAAGCAAGTGCAAGTTCAACAGGATTTTGTGACCGCAGG 4216
QY 1908 CTGGGCTCCTCTGCTGATATCTATCCAAATCCAAAGACAGTTGGGTGAAGTTGCATCC 1967
Db 4217 CTGGGCTCCTCTGCTGATATCTATCCAAATCCAAAGACAGTTGGGTGAAGTTGCATCC 4276
QY 1968 TTTGGGGCAGTAACTTGGCCAGTGTCCGA 2001
Db 4277 TTTGGGGCAGTAACTTGGCCAGTGTCCGA 4310

RESULT 15

US-09-845-416-34
; Sequence 34, Application US/09845416
; Publication No. US2003017312A1
; GENERAL INFORMATION:
; APPLICANT: XIAO, XIAO
; TITLE OF INVENTION: DNA SEQUENCE ENCODING A DYSTROPHY MINIGENE AND USE
; FILE REFERENCE: DEL142
; CURRENT APPLICATION NUMBER: US/09/845,416
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: 60/200,777
; PRIOR FILING DATE: 2000-04-28
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 34
; LENGTH: 4990
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-845-416-34

Query Match 55.6%; Score 1112; DB 12; Length 4990;
Best Local Similarity 71.1%; Pred. No. 0;
Matches 1816; Conservative 0; Mismatches 185; Indels 553; Gaps 4;
QY 1 GGCAGTTCATGATGAGAGTGAAGTAACTGGACCGTTATCAACAGCTTTAGAGAA 60
Db 1781 GGCAGTTCATGATGAGAGTGAAGTAACTGGACCGTTATCAACAGCTTTAGAGAA 1840
QY 61 GTATTATCGGGCTTCTTCTCTGAGGACACATTTGCAAGACAAAGAGAGATTCTTAAT 120

Db 1841 GTATTATCGGGCTTCTTCTCTGAGGACACATTTGCAAGCAAGAGAGATTCTTAAT 1900
QY 121 GATCTGGAAGTGGTGAAGACACAGTTTCTACTCATGAGGGTACATGATGGATTGACA 180
Db 1901 GATCTGGAAGTGGTGAAGACACAGTTTCTACTCATGAGGGTACATGATGGATTGACA 1960
QY 181 GCCCATCAGGGCCGGGTTGGTAATATTCTACAAATTTGGGAAGTAAAGCTGATTGGAACAGA 240
Db 1961 GCCCATCAGGGCCGGGTTGGTAATATTCTACAAATTTGGGAAGTAAAGCTGATTGGAACAGA 2020
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Db 2021 AAATTATCAGAGATGAGAAACCTGAAGTACAGAGACAGATGATCTCTTAATTAAGA 2080
QY 301 TGGGAATGCTCAGGGTACCTAGCATGGAATAAAGCAATTTACATAGAGATTTTAATG 360
Db 2081 TGGGAATGCTCAGGGTACCTAGCATGGAATAAAGCAATTTACATAGAGATTTTAATG 2140
QY 361 GATCTCCAGATC-GAAACTGAAAGATTGAATGACTGGCTTAACAATAAAGAGAGAA 419
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QY 420 ACAGGAAATGAGAGAGACCTCTTGGACCTGATCTTGAGACCTTAAACCCAGTA 479
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QY 660 TGGGTTCTTTTACAAGAC----- 677
Db 2441 TGGGTTCTTTTACAAGAC----- 2500
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Db 2861 CTGTTACAGACGTTTGGATACATCACTCAAGTGGAGTGCACCTTCGAAAAAGTCT 2920
QY 984 GAAAGAGTACAGAC----- 999

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Db 3761 ATCAACACAGAGACTCAAAACACTTGTGGGACCATCCCAAAATGACAGAGCTCTACCA 3820
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QY 1728 TCCGTGGATATGTCTGTGAACTGGGCTGCTGAATGTTATGATACGGGAGCAACAGGGAGG 1787
Db 4061 TCGCTGGATATGTCTGTGAACTGGGCTGCTGAATGTTATGATACGGGAGCAACAGGGAGG 4120
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Db 4121 ATCCGTGCTCTGCTTTTAAACTGGCATCATTTCCCTGTGTAAGCAGCATTTGGAAGAC 4180
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Db 4181 AAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCAAGCGCAGG 4240
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Db 4241 CTGGGCTCTCTTCTGCAAGTATCTATCCAAATTCACAGAGTGGGTGAAGTTCATCC 4300
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Db 4301 TTTGGGGCAGTAAACATTGAGCCCAAGTGTCCGGA 4334

Search completed: September 24, 2003, 11:53:00

Job time : 494.095 secs